New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145 | Ops Batch 80 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 67-64-1 | Acetone | 72000 | D | ug/L | 10000 | 1556 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7915 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 78-93-3 | 2-Butanone | 39000 | D | ug/L | 10000 | 811.80 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7915 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 730 | | ug/L | 500 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 591-78-6 | 2-Hexanone | 450 | J | ug/L | 500 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 100-41-4 | Ethylbenzene | 180 | | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 108-90-7 | Chlorobenzene | 230 | | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | XYLMP | p&m-Xylene | 160 | J | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 95-47-6 | o-Xylene | 71 | J | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145 | Ops Batch 80 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 430 | | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 260 | | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 87-68-3 | Hexachlorobutadiene | 330 | J | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 91-20-3 | Naphthalene | 910 | | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | | | | |
| NAL13026-145 | Ops Batch 80 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | 50 | 100% | | |
| NAL13026-145 | Ops Batch 80 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | 50 | 102% | | |
| NAL13026-145 | Ops Batch 80 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | 50 | 94% | | |
| NAL13026-145 | Ops Batch 80 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7909 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-146 | Ops Batch 81 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 67-64-1 | Acetone | 75000 | D | ug/L | 10000 | 1556 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7916 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 78-93-3 | 2-Butanone | 42000 | D | ug/L | 10000 | 166.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7916 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 770 | | ug/L | 500 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 591-78-6 | 2-Hexanone | 380 | J | ug/L | 500 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-146 | Ops Batch 81 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 490 | | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 91-20-3 | Naphthalene | 360 | J | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | | | | |
| NAL13026-146 | Ops Batch 81 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | 50 | 102% | | |
| NAL13026-146 | Ops Batch 81 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | 50 | 104% | | |
| NAL13026-146 | Ops Batch 81 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | 50 | 94% | | |
| NAL13026-146 | Ops Batch 81 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7910 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-147 | Ops Batch 83 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 67-64-1 | Acetone | 64000 | D | ug/L | 10000 | 1556 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7917 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 78-93-3 | 2-Butanone | 44000 | D | ug/L | 10000 | 166.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7917 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 880 | | ug/L | 500 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 591-78-6 | 2-Hexanone | 440 | J | ug/L | 500 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 100-41-4 | Ethylbenzene | 130 | | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | XYLMP | p&m-Xylene | 59 | J | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-147 | Ops Batch 83 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 670 | | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 99-87-6 | p-Isopropltoluene | 89 | J | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 100 | J | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 90 | J | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 91-20-3 | Naphthalene | 470 | J | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 130 | J | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | | | | |
| NAL13026-147 | Ops Batch 83 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | 50 | 102% | | |
| NAL13026-147 | Ops Batch 83 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | 50 | 106% | | |
| NAL13026-147 | Ops Batch 83 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | 50 | 92% | | |
| NAL13026-147 | Ops Batch 83 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7911 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 67-64-1 | Acetone | 30000 | D | ug/L | 10000 | 1556 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7918 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 78-93-3 | 2-Butanone | 17000 | D | ug/L | 10000 | 166.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7918 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 330 | J | ug/L | 500 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 100-41-4 | Ethylbenzene | 130 | | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-148 | Ops Batch 82-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 130 | J | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 88 | J | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 91-20-3 | Naphthalene | 360 | J | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | | | | |
| NAL13026-148 | Ops Batch 82-MSD | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | 50 | 98% | | |
| NAL13026-148 | Ops Batch 82-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | 50 | 98% | | |
| NAL13026-148 | Ops Batch 82-MSD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | 50 | 96% | | |
| NAL13026-148 | Ops Batch 82-MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7914 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050113MBKA | J050113MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050113MBKA | J050113MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | | | | |
| J050113MBKA | J050113MBKA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | 50 | 104% | | |
| J050113MBKA | J050113MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | 50 | 106% | | |
| J050113MBKA | J050113MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | 50 | 94% | | |
| J050113MBKA | J050113MBKA | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7908 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050113CCVA | J050113CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 48 | | ug/L | 5 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 74-87-3 | Chloromethane | 43 | | ug/L | 5 | 0.43 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 84% | | |
| J050113CCVA | J050113CCVA | ORG | 74-83-9 | Bromomethane | 58 | | ug/L | 5 | 0.50 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 116% | | |
| J050113CCVA | J050113CCVA | ORG | 75-00-3 | Chloroethane | 54 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 108% | | |
| J050113CCVA | J050113CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 88% | | |
| J050113CCVA | J050113CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 67-64-1 | Acetone | 36 | | ug/L | 10 | 1.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 72% | | |
| J050113CCVA | J050113CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 64 | | ug/L | 1 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 128% | | |
| J050113CCVA | J050113CCVA | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 112% | | |
| J050113CCVA | J050113CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 65 | | ug/L | 1 | 0.53 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 130% | | |
| J050113CCVA | J050113CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 118% | | |
| J050113CCVA | J050113CCVA | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 100% | | |
| J050113CCVA | J050113CCVA | ORG | 67-66-3 | Chloroform | 48 | | ug/L | 2 | 0.41 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 104% | | |
| J050113CCVA | J050113CCVA | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 114% | | |
| J050113CCVA | J050113CCVA | ORG | 56-23-5 | Carbon tetrachloride | 53 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 106% | | |
| J050113CCVA | J050113CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 108% | | |
| J050113CCVA | J050113CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 100% | | |
| J050113CCVA | J050113CCVA | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 102% | | |
| J050113CCVA | J050113CCVA | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |
| J050113CCVA | J050113CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 106% | | |
| J050113CCVA | J050113CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 98% | | |
| J050113CCVA | J050113CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 60 | | ug/L | 1 | 0.21 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 120% | | |
| J050113CCVA | J050113CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 127-18-4 | Tetrachloroethene | 32 | | ug/L | 1 | 0.49 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 64% | | |
| J050113CCVA | J050113CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 106% | | |
| J050113CCVA | J050113CCVA | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 102% | | |
| J050113CCVA | J050113CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 46 | | ug/L | 2 | 0.30 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 92% | | |
| J050113CCVA | J050113CCVA | ORG | 591-78-6 | 2-Hexanone | 61 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 122% | | |
| J050113CCVA | J050113CCVA | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 88% | | |
| J050113CCVA | J050113CCVA | ORG | XYLMP | p&m-Xylene | 81 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 100 | 81% | | |
| J050113CCVA | J050113CCVA | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 86% | | |
| J050113CCVA | J050113CCVA | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 92% | | |
| J050113CCVA | J050113CCVA | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050113CCVA | J050113CCVA | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 84% | | |
| J050113CCVA | J050113CCVA | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 92% | | |
| J050113CCVA | J050113CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 108% | | |
| J050113CCVA | J050113CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 102% | | |
| J050113CCVA | J050113CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 84% | | |
| J050113CCVA | J050113CCVA | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |
| J050113CCVA | J050113CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |
| J050113CCVA | J050113CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 53 | | ug/L | 2 | 0.22 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 106% | | |
| J050113CCVA | J050113CCVA | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 55 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 110% | | |
| J050113CCVA | J050113CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 100% | | |
| J050113CCVA | J050113CCVA | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 100% | | |
| J050113CCVA | J050113CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 44 | | ug/L | 5 | 1.59 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 88% | | |
| J050113CCVA | J050113CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 57 | | ug/L | 5 | 0.65 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 114% | | |
| J050113CCVA | J050113CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 100% | | |
| J050113CCVA | J050113CCVA | ORG | 91-20-3 | Naphthalene | 41 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 82% | | |
| J050113CCVA | J050113CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |
| J050113CCVA | J050113CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 98% | | |
| J050113CCVA | J050113CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 44 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 88% | | |
| J050113CCVA | J050113CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 96% | | |
| J050113CCVA | J050113CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7907 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J043013ALCS | J043013ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 47 | | ug/L | 5 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 74-87-3 | Chloromethane | 36 | | ug/L | 5 | 0.43 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 72% | | |
| J043013ALCS | J043013ALCS | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 84% | | |
| J043013ALCS | J043013ALCS | ORG | 74-83-9 | Bromomethane | 56 | | ug/L | 5 | 0.50 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 112% | | |
| J043013ALCS | J043013ALCS | ORG | 75-00-3 | Chloroethane | 81 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 162% | | |
| J043013ALCS | J043013ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 104% | | |
| J043013ALCS | J043013ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 47 | | ug/L | 1 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 75-09-2 | Methylene chloride | 55 | | ug/L | 5 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 110% | | |
| J043013ALCS | J043013ALCS | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 120% | | |
| J043013ALCS | J043013ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 106% | | |
| J043013ALCS | J043013ALCS | ORG | 1634-04-4 | MTBE | 58 | | ug/L | 5 | 0.61 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 116% | | |
| J043013ALCS | J043013ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 54 | | ug/L | 1 | 0.53 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 108% | | |
| J043013ALCS | J043013ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 102% | | |
| J043013ALCS | J043013ALCS | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | ORG | 78-93-3 | 2-Butanone | 50 | | ug/L | 1 | 0.17 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 104% | | |
| J043013ALCS | J043013ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 56 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 112% | | |
| J043013ALCS | J043013ALCS | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 104% | | |
| J043013ALCS | J043013ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 106% | | |
| J043013ALCS | J043013ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 112% | | |
| J043013ALCS | J043013ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 44 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 88% | | |
| J043013ALCS | J043013ALCS | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 52 | | ug/L | 1 | 0.21 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 104% | | |
| J043013ALCS | J043013ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.31 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 92% | | |
| J043013ALCS | J043013ALCS | ORG | 127-18-4 | Tetrachloroethene | 49 | | ug/L | 1 | 0.49 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 56 | | ug/L | 1 | 0.34 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 112% | | |
| J043013ALCS | J043013ALCS | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 108% | | |
| J043013ALCS | J043013ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 108% | | |
| J043013ALCS | J043013ALCS | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 90% | | |
| J043013ALCS | J043013ALCS | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.19 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 102% | | |
| J043013ALCS | J043013ALCS | ORG | XYLMP | p&m-Xylene | 87 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 100 | 87% | | |
| J043013ALCS | J043013ALCS | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 75-25-2 | Bromoform | 57 | | ug/L | 2 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 114% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J043013ALCS | J043013ALCS | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 88% | | |
| J043013ALCS | J043013ALCS | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 92% | | |
| J043013ALCS | J043013ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 108% | | |
| J043013ALCS | J043013ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 110% | | |
| J043013ALCS | J043013ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 86% | | |
| J043013ALCS | J043013ALCS | ORG | 98-06-6 | tert-Butylbenzene | 56 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 112% | | |
| J043013ALCS | J043013ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 102% | | |
| J043013ALCS | J043013ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 92% | | |
| J043013ALCS | J043013ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 98% | | |
| J043013ALCS | J043013ALCS | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 88% | | |
| J043013ALCS | J043013ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 45 | | ug/L | 5 | 0.65 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 90% | | |
| J043013ALCS | J043013ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 94% | | |
| J043013ALCS | J043013ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 96% | | |
| J043013ALCS | J043013ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 102% | | |
| J043013ALCS | J043013ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |
| J043013ALCS | J043013ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 96% | | |
| J043013ALCS | J043013ALCS | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7905 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J043013ALCD | J043013ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 44 | | ug/L | 5 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 88% | 7% | |
| J043013ALCD | J043013ALCD | ORG | 74-87-3 | Chloromethane | 35 | | ug/L | 5 | 0.43 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 70% | 3% | |
| J043013ALCD | J043013ALCD | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 86% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 74-83-9 | Bromomethane | 61 | | ug/L | 5 | 0.50 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 122% | 9% | |
| J043013ALCD | J043013ALCD | ORG | 75-00-3 | Chloroethane | 86 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 172% | 6% | |
| J043013ALCD | J043013ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 75-09-2 | Methylene chloride | 58 | | ug/L | 5 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 116% | 5% | |
| J043013ALCD | J043013ALCD | ORG | 67-64-1 | Acetone | 59 | | ug/L | 10 | 1.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 118% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 106% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 1634-04-4 | MTBE | 58 | | ug/L | 5 | 0.61 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 116% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 112% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 102% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 78-93-3 | 2-Butanone | 45 | | ug/L | 1 | 0.17 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 90% | 11% | |
| J043013ALCD | J043013ALCD | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 102% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 108% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 59 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 118% | 5% | |
| J043013ALCD | J043013ALCD | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 108% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 58 | | ug/L | 1 | 0.18 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 116% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 102% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 9% | |
| J043013ALCD | J043013ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 106% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 6% | |
| J043013ALCD | J043013ALCD | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 100% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 58 | | ug/L | 1 | 0.34 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 116% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 112% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 108% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 92% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 108-90-7 | Chlorobenzene | 48 | | ug/L | 1 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.19 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 2% | |
| J043013ALCD | J043013ALCD | ORG | XYLMP | p&m-Xylene | 87 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 100 | 87% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 100-42-5 | Styrene | 50 | | ug/L | 1 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 100% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 75-25-2 | Bromoform | 57 | | ug/L | 2 | 0.47 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 114% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J043013ALCD | J043013ALCD | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 88% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 92% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 112% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 58 | | ug/L | 2 | 0.29 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 116% | 5% | |
| J043013ALCD | J043013ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 88% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 98-06-6 | tert-Butylbenzene | 56 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 112% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 100% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 94% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 100% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 0% | |
| J043013ALCD | J043013ALCD | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 90% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 47 | | ug/L | 5 | 0.65 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 94% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 2% | |
| J043013ALCD | J043013ALCD | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 98% | 4% | |
| J043013ALCD | J043013ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 100% | 4% | |
| J043013ALCD | J043013ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 106% | 4% | |
| J043013ALCD | J043013ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 104% | 4% | |
| J043013ALCD | J043013ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 96% | 0% | |
| J043013ALCD | J043013ALCD | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/1/2013 | 5/1/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7906 | 50 | 102% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145MS | Ops Batch 80 | ORG | 75-71-8 | Dichlorodifluoromethane | 4500 | | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 90% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 74-87-3 | Chloromethane | 4100 | | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 82% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-01-4 | Vinyl chloride | 4300 | | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 86% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 74-83-9 | Bromomethane | 6100 | | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 122% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-00-3 | Chloroethane | 5900 | | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 118% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-69-4 | Trichlorofluoromethane | 5000 | | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 100% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-35-4 | 1,1-Dichloroethene | 4800 | | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 96% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-09-2 | Methylene chloride | 4900 | | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 98% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 67-64-1 | Acetone | 70000 | | ug/L | 1000 | 155.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | -40% | | 72000 |
| NAL13026-145MS | Ops Batch 80 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5000 | | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 100% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 1634-04-4 | MTBE | 5000 | | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 100% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-34-3 | 1,1-Dichloroethane | 6500 | | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 130% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 6300 | | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 126% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 74-97-5 | Bromochloromethane | 5400 | | ug/L | 1000 | 81.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 108% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 67-66-3 | Chloroform | 5200 | | ug/L | 200 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 104% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 112% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 78-93-3 | 2-Butanone | 45000 | | ug/L | 100 | 16.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 120% | | 39000 |
| NAL13026-145MS | Ops Batch 80 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 112% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 71-43-2 | Benzene | 5800 | | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 116% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 107-06-2 | 1,2-Dichloroethane | 5900 | | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 118% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 110% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 74-95-3 | Dibromomethane | 5300 | | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 106% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 112% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 104% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5100 | | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 102% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 108-88-3 | Toluene | 5300 | | ug/L | 500 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 106% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6000 | | ug/L | 100 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 105% | | 730 |
| NAL13026-145MS | Ops Batch 80 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 102% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 127-18-4 | Tetrachloroethene | 3500 | | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 70% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 6000 | | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 120% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 124-48-1 | Dibromochloromethane | 5500 | | ug/L | 500 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 110% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 106% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 591-78-6 | 2-Hexanone | 5600 | | ug/L | 200 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 103% | | 450 |
| NAL13026-145MS | Ops Batch 80 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 90% | | 180 |
| NAL13026-145MS | Ops Batch 80 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 87% | | 230 |
| NAL13026-145MS | Ops Batch 80 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4700 | | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 94% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 10000 | 89% | | 160 |
| NAL13026-145MS | Ops Batch 80 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 95% | | 71 |
| NAL13026-145MS | Ops Batch 80 | ORG | 100-42-5 | Styrene | 5000 | | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 100% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145MS | Ops Batch 80 | ORG | 98-82-8 | Isopropylbenzene | 4600 | | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 92% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 103-65-1 | n-Propylbenzene | 5100 | | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 102% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 6400 | | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 119% | | 430 |
| NAL13026-145MS | Ops Batch 80 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 6100 | | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 122% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 92% | | 120 |
| NAL13026-145MS | Ops Batch 80 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 102% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 105% | | 150 |
| NAL13026-145MS | Ops Batch 80 | ORG | 135-98-8 | sec-Butylbenzene | 5300 | | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 106% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5400 | | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 108% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 99-87-6 | p-Isopropltoluene | 6300 | | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 104% | | 1100 |
| NAL13026-145MS | Ops Batch 80 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5500 | | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 105% | | 260 |
| NAL13026-145MS | Ops Batch 80 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 100% | | 110 |
| NAL13026-145MS | Ops Batch 80 | ORG | 104-51-8 | n-Butylbenzene | 5500 | | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 110% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6000 | | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 120% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 87-68-3 | Hexachlorobutadiene | 5500 | | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 103% | | 330 |
| NAL13026-145MS | Ops Batch 80 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5300 | | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 106% | | |
| NAL13026-145MS | Ops Batch 80 | ORG | 91-20-3 | Naphthalene | 5700 | | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 96% | | 910 |
| NAL13026-145MS | Ops Batch 80 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5400 | | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 5000 | 108% | | |
| NAL13026-145MS | Ops Batch 80 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 50 | 100% | | |
| NAL13026-145MS | Ops Batch 80 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 50 | 96% | | |
| NAL13026-145MS | Ops Batch 80 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 50 | 94% | | |
| NAL13026-145MS | Ops Batch 80 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7912 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-71-8 | Dichlorodifluoromethane | 4300 | | ug/L | 500 | 29.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 86% | 5% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 74-87-3 | Chloromethane | 3900 | | ug/L | 500 | 43.07 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 78% | 5% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-01-4 | Vinyl chloride | 4300 | | ug/L | 200 | 31.86 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 86% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 74-83-9 | Bromomethane | 6000 | | ug/L | 500 | 50.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 120% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-00-3 | Chloroethane | 5000 | | ug/L | 500 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 100% | 17% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-35-4 | 1,1-Dichloroethene | 5000 | | ug/L | 100 | 47.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 100% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-09-2 | Methylene chloride | 5100 | | ug/L | 500 | 26.46 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 67-64-1 | Acetone | 72000 | | ug/L | 1000 | 155.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 0% | 3% | 72000 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5200 | | ug/L | 100 | 55.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 104% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 1634-04-4 | MTBE | 4900 | | ug/L | 500 | 61.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 98% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-34-3 | 1,1-Dichloroethane | 6800 | | ug/L | 100 | 52.66 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 136% | 5% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 6400 | | ug/L | 100 | 32.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 128% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 74-97-5 | Bromochloromethane | 5500 | | ug/L | 1000 | 81.18 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 110% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 67-66-3 | Chloroform | 5400 | | ug/L | 200 | 41.37 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 108% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 114% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 78-93-3 | 2-Butanone | 47000 | | ug/L | 100 | 16.65 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 160% | 4% | 39000 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 114% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 71-43-2 | Benzene | 5800 | | ug/L | 100 | 13.53 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 116% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 107-06-2 | 1,2-Dichloroethane | 5900 | | ug/L | 100 | 20.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 118% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 110% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 74-95-3 | Dibromomethane | 5600 | | ug/L | 200 | 32.20 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 112% | 6% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 78-87-5 | 1,2-Dichloropropane | 5900 | | ug/L | 100 | 18.17 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 118% | 5% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 100% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 108-88-3 | Toluene | 5200 | | ug/L | 500 | 74.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 104% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5800 | | ug/L | 100 | 20.96 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 101% | 3% | 730 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 108% | 6% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 127-18-4 | Tetrachloroethene | 3300 | | ug/L | 100 | 48.56 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 66% | 6% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5800 | | ug/L | 100 | 34.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 116% | 3% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 124-48-1 | Dibromochloromethane | 5600 | | ug/L | 500 | 68.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 112% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 106% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 591-78-6 | 2-Hexanone | 5500 | | ug/L | 200 | 26.49 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 101% | 2% | 450 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 88% | 2% | 180 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 108-90-7 | Chlorobenzene | 4500 | | ug/L | 100 | 27.52 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 85% | 2% | 230 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4700 | | ug/L | 200 | 19.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 94% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | XYLMP | p&m-Xylene | 8900 | | ug/L | 200 | 26.14 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 10000 | 87% | 2% | 160 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 95% | 0% | 71 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 98% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 110% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-145MSD | Ops Batch 80 | ORG | 98-82-8 | Isopropylbenzene | 4500 | | ug/L | 200 | 20.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 90% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 103-65-1 | n-Propylbenzene | 5000 | | ug/L | 200 | 27.00 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 100% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 6200 | | ug/L | 200 | 29.16 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 115% | 3% | 430 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5800 | | ug/L | 200 | 29.47 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 116% | 5% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 90% | 2% | 120 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 103% | 2% | 150 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 135-98-8 | sec-Butylbenzene | 5200 | | ug/L | 200 | 32.34 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 104% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5400 | | ug/L | 200 | 22.21 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 108% | 0% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 99-87-6 | p-Isopropltoluene | 6400 | | ug/L | 200 | 25.48 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 106% | 2% | 1100 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5800 | | ug/L | 200 | 33.03 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 111% | 5% | 260 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 2% | 110 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 104-51-8 | n-Butylbenzene | 5600 | | ug/L | 500 | 27.81 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 112% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6200 | | ug/L | 500 | 159.11 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 124% | 3% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 87-68-3 | Hexachlorobutadiene | 5700 | | ug/L | 500 | 65.42 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 107% | 4% | 330 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5500 | | ug/L | 500 | 27.63 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 110% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 91-20-3 | Naphthalene | 6000 | | ug/L | 500 | 56.04 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 102% | 5% | 910 |
| NAL13026-145MSD | Ops Batch 80 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5600 | | ug/L | 500 | 23.28 | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 5000 | 112% | 4% | 0 |
| NAL13026-145MSD | Ops Batch 80 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 50 | 102% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 50 | 98% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 50 | 92% | 2% | 0 |
| NAL13026-145MSD | Ops Batch 80 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/1/2013 | 5/1/2013 | 5/1/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7913 | 50 | 96% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149 | Ops Batch 84 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 67-64-1 | Acetone | 67000 | D | ug/L | 10000 | 1556 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7931 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 78-93-3 | 2-Butanone | 32000 | DX+ | ug/L | 10000 | 811.80 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7931 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 71-43-2 | Benzene | 27 | J | ug/L | 100 | 13.53 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 108-88-3 | Toluene | 47 | J | ug/L | 100 | 20.96 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 490 | JX+ | ug/L | 500 | 74.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 127-18-4 | Tetrachloroethene | | X- | ug/L | 100 | 48.56 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 591-78-6 | 2-Hexanone | 260 | JX+ | ug/L | 500 | 68.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 100-41-4 | Ethylbenzene | 52 | J | ug/L | 100 | 25.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | XYLMP | p&m-Xylene | 140 | J | ug/L | 200 | 26.14 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 95-47-6 | o-Xylene | 56 | J | ug/L | 100 | 12.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 100-42-5 | Styrene | 81 | J | ug/L | 100 | 20.23 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149 | Ops Batch 84 | ORG | 98-82-8 | Isopropylbenzene | 58 | J | ug/L | 200 | 20.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 103-65-1 | n-Propylbenzene | 78 | J | ug/L | 200 | 27.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 135-98-8 | sec-Butylbenzene | 69 | J | ug/L | 200 | 32.34 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 99-87-6 | p-Isopropltoluene | 220 | | ug/L | 200 | 25.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 150 | J | ug/L | 200 | 33.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 104-51-8 | n-Butylbenzene | 120 | J | ug/L | 500 | 27.81 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 91-20-3 | Naphthalene | 350 | J | ug/L | 500 | 56.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | | | | |
| NAL13026-149 | Ops Batch 84 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | 50 | 100% | | |
| NAL13026-149 | Ops Batch 84 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | 50 | 102% | | |
| NAL13026-149 | Ops Batch 84 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | 50 | 94% | | |
| NAL13026-149 | Ops Batch 84 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7926 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-150 | Ops Batch 85 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 67-64-1 | Acetone | 66000 | D | ug/L | 10000 | 1556 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7932 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 78-93-3 | 2-Butanone | 30000 | DX+ | ug/L | 1000 | 16.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7932 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 440 | JX+ | ug/L | 500 | 20.96 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 127-18-4 | Tetrachloroethene | | X- | ug/L | 100 | 48.56 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 591-78-6 | 2-Hexanone | 250 | JX+ | ug/L | 500 | 26.49 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | XYLMP | p&m-Xylene | 20 | J | ug/L | 200 | 26.14 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-150 | Ops Batch 85 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 28 | J | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 135-98-8 | sec-Butylbenzene | 84 | J | ug/L | 200 | 32.34 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 99-87-6 | p-Isopropltoluene | 550 | | ug/L | 200 | 25.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 100 | J | ug/L | 200 | 33.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 91-20-3 | Naphthalene | 430 | J | ug/L | 500 | 56.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | | | | |
| NAL13026-150 | Ops Batch 85 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | 50 | 102% | | |
| NAL13026-150 | Ops Batch 85 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | 50 | 104% | | |
| NAL13026-150 | Ops Batch 85 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | 50 | 92% | | |
| NAL13026-150 | Ops Batch 85 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7927 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 67-64-1 | Acetone | 39000 | D | ug/L | 10000 | 1556 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7934 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 78-93-3 | 2-Butanone | 18000 | X+ | ug/L | 10000 | 166.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7934 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 460 | JX+ | ug/L | 500 | 20.96 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 591-78-6 | 2-Hexanone | | UX+ | ug/L | 500 | 26.49 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-151 | Ops Batch 86-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 60 | J | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 135-98-8 | sec-Butylbenzene | 48 | J | ug/L | 200 | 32.34 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 99-87-6 | p-Isopropltoluene | 71 | J | ug/L | 200 | 25.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 91-20-3 | Naphthalene | 170 | J | ug/L | 500 | 56.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | | | | |
| NAL13026-151 | Ops Batch 86-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | 50 | 104% | | |
| NAL13026-151 | Ops Batch 86-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | 50 | 104% | | |
| NAL13026-151 | Ops Batch 86-MSD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | 50 | 94% | | |
| NAL13026-151 | Ops Batch 86-MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7933 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213CCVA | J050213CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 37 | | ug/L | 5 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 74% | | |
| J050213CCVA | J050213CCVA | ORG | 74-87-3 | Chloromethane | 36 | | ug/L | 5 | 0.43 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 72% | | |
| J050213CCVA | J050213CCVA | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 84% | | |
| J050213CCVA | J050213CCVA | ORG | 74-83-9 | Bromomethane | 53 | | ug/L | 5 | 0.50 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 106% | | |
| J050213CCVA | J050213CCVA | ORG | 75-00-3 | Chloroethane | 62 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 124% | | |
| J050213CCVA | J050213CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 57 | | ug/L | 1 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 114% | | |
| J050213CCVA | J050213CCVA | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 67-64-1 | Acetone | 55 | | ug/L | 10 | 1.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 110% | | |
| J050213CCVA | J050213CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 118% | | |
| J050213CCVA | J050213CCVA | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 106% | | |
| J050213CCVA | J050213CCVA | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 108% | | |
| J050213CCVA | J050213CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 78-93-3 | 2-Butanone | 60 | | ug/L | 1 | 0.17 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 120% | | |
| J050213CCVA | J050213CCVA | ORG | 56-23-5 | Carbon tetrachloride | 60 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 120% | | |
| J050213CCVA | J050213CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 108% | | |
| J050213CCVA | J050213CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 108% | | |
| J050213CCVA | J050213CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 114% | | |
| J050213CCVA | J050213CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 108% | | |
| J050213CCVA | J050213CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 56 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 108-88-3 | Toluene | 51 | | ug/L | 1 | 0.74 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 5 | 0.21 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 122% | | |
| J050213CCVA | J050213CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 56 | | ug/L | 1 | 0.31 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 127-18-4 | Tetrachloroethene | 38 | | ug/L | 1 | 0.49 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 76% | | |
| J050213CCVA | J050213CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 124-48-1 | Dibromochloromethane | 58 | | ug/L | 5 | 0.69 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 116% | | |
| J050213CCVA | J050213CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 106% | | |
| J050213CCVA | J050213CCVA | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 126% | | |
| J050213CCVA | J050213CCVA | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 98% | | |
| J050213CCVA | J050213CCVA | ORG | 108-90-7 | Chlorobenzene | 51 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.19 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | XYLMP | p&m-Xylene | 97 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 100 | 97% | | |
| J050213CCVA | J050213CCVA | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |
| J050213CCVA | J050213CCVA | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 98% | | |
| J050213CCVA | J050213CCVA | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213CCVA | J050213CCVA | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 98% | | |
| J050213CCVA | J050213CCVA | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 98% | | |
| J050213CCVA | J050213CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 100% | | |
| J050213CCVA | J050213CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |
| J050213CCVA | J050213CCVA | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 100% | | |
| J050213CCVA | J050213CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 92% | | |
| J050213CCVA | J050213CCVA | ORG | 135-98-8 | sec-Butylbenzene | 51 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 53 | | ug/L | 2 | 0.22 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 106% | | |
| J050213CCVA | J050213CCVA | ORG | 99-87-6 | p-Isopropltoluene | 51 | | ug/L | 2 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 102% | | |
| J050213CCVA | J050213CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |
| J050213CCVA | J050213CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 98% | | |
| J050213CCVA | J050213CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 112% | | |
| J050213CCVA | J050213CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |
| J050213CCVA | J050213CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 104% | | |
| J050213CCVA | J050213CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 100% | | |
| J050213CCVA | J050213CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 94% | | |
| J050213CCVA | J050213CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |
| J050213CCVA | J050213CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7924 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213MBKA | J050213MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 1 | 0.74 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 5 | 0.21 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213MBKA | J050213MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | | | | |
| J050213MBKA | J050213MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | 50 | 102% | | |
| J050213MBKA | J050213MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | 50 | 100% | | |
| J050213MBKA | J050213MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | 50 | 94% | | |
| J050213MBKA | J050213MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7925 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213ALCS | J050213ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 35 | | ug/L | 5 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 70% | | |
| J050213ALCS | J050213ALCS | ORG | 74-87-3 | Chloromethane | 33 | | ug/L | 5 | 0.43 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 66% | | |
| J050213ALCS | J050213ALCS | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 80% | | |
| J050213ALCS | J050213ALCS | ORG | 74-83-9 | Bromomethane | 58 | | ug/L | 5 | 0.50 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 116% | | |
| J050213ALCS | J050213ALCS | ORG | 75-00-3 | Chloroethane | 54 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 108% | | |
| J050213ALCS | J050213ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 51 | | ug/L | 1 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 102% | | |
| J050213ALCS | J050213ALCS | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 102% | | |
| J050213ALCS | J050213ALCS | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 108% | | |
| J050213ALCS | J050213ALCS | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 102% | | |
| J050213ALCS | J050213ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 110% | | |
| J050213ALCS | J050213ALCS | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 106% | | |
| J050213ALCS | J050213ALCS | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 104% | | |
| J050213ALCS | J050213ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 54 | | ug/L | 1 | 0.16 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 108% | | |
| J050213ALCS | J050213ALCS | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 110% | | |
| J050213ALCS | J050213ALCS | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 110% | | |
| J050213ALCS | J050213ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 104% | | |
| J050213ALCS | J050213ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 104% | | |
| J050213ALCS | J050213ALCS | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |
| J050213ALCS | J050213ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 106% | | |
| J050213ALCS | J050213ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 106% | | |
| J050213ALCS | J050213ALCS | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |
| J050213ALCS | J050213ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 100% | | |
| J050213ALCS | J050213ALCS | ORG | 108-88-3 | Toluene | 47 | | ug/L | 1 | 0.74 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 5 | 0.21 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 108% | | |
| J050213ALCS | J050213ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 100% | | |
| J050213ALCS | J050213ALCS | ORG | 127-18-4 | Tetrachloroethene | 40 | | ug/L | 1 | 0.49 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 80% | | |
| J050213ALCS | J050213ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 102% | | |
| J050213ALCS | J050213ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 591-78-6 | 2-Hexanone | 57 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 114% | | |
| J050213ALCS | J050213ALCS | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 92% | | |
| J050213ALCS | J050213ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 100 | 89% | | |
| J050213ALCS | J050213ALCS | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 75-25-2 | Bromoform | 49 | | ug/L | 2 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213ALCS | J050213ALCS | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |
| J050213ALCS | J050213ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 92% | | |
| J050213ALCS | J050213ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 86% | | |
| J050213ALCS | J050213ALCS | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 94% | | |
| J050213ALCS | J050213ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 88% | | |
| J050213ALCS | J050213ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 84% | | |
| J050213ALCS | J050213ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 96% | | |
| J050213ALCS | J050213ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 92% | | |
| J050213ALCS | J050213ALCS | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 84% | | |
| J050213ALCS | J050213ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 90% | | |
| J050213ALCS | J050213ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 104% | | |
| J050213ALCS | J050213ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |
| J050213ALCS | J050213ALCS | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 92% | | |
| J050213ALCS | J050213ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7935 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213ALCD | J050213ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 26 | | ug/L | 5 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 52% | 30% | |
| J050213ALCD | J050213ALCD | ORG | 74-87-3 | Chloromethane | 31 | | ug/L | 5 | 0.43 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 62% | 6% | |
| J050213ALCD | J050213ALCD | ORG | 75-01-4 | Vinyl chloride | 30 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 60% | 29% | |
| J050213ALCD | J050213ALCD | ORG | 74-83-9 | Bromomethane | 48 | | ug/L | 5 | 0.50 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 19% | |
| J050213ALCD | J050213ALCD | ORG | 75-00-3 | Chloroethane | 44 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 88% | 20% | |
| J050213ALCD | J050213ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 41 | | ug/L | 5 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 82% | 14% | |
| J050213ALCD | J050213ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 6% | |
| J050213ALCD | J050213ALCD | ORG | 75-09-2 | Methylene chloride | 46 | | ug/L | 5 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 92% | 10% | |
| J050213ALCD | J050213ALCD | ORG | 67-64-1 | Acetone | 42 | | ug/L | 10 | 1.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 13% | |
| J050213ALCD | J050213ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 106% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 100% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 61 | | ug/L | 1 | 0.53 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 122% | 26% | |
| J050213ALCD | J050213ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 110% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 108% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 102% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 54 | | ug/L | 1 | 0.16 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 108% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 78-93-3 | 2-Butanone | 64 | | ug/L | 1 | 0.17 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 128% | 15% | |
| J050213ALCD | J050213ALCD | ORG | 56-23-5 | Carbon tetrachloride | 56 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 112% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 102% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 51 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 102% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 98% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 104% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 106% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 98% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 100% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 108-88-3 | Toluene | 47 | | ug/L | 1 | 0.74 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 94% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 62 | | ug/L | 5 | 0.21 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 124% | 14% | |
| J050213ALCD | J050213ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 102% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 127-18-4 | Tetrachloroethene | 35 | | ug/L | 1 | 0.49 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 70% | 13% | |
| J050213ALCD | J050213ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 94% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 104% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 591-78-6 | 2-Hexanone | 65 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 130% | 13% | |
| J050213ALCD | J050213ALCD | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 82% | 9% | |
| J050213ALCD | J050213ALCD | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 9% | |
| J050213ALCD | J050213ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 88% | 9% | |
| J050213ALCD | J050213ALCD | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 100 | 82% | 8% | |
| J050213ALCD | J050213ALCD | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 7% | |
| J050213ALCD | J050213ALCD | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 7% | |
| J050213ALCD | J050213ALCD | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 94% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050213ALCD | J050213ALCD | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 7% | |
| J050213ALCD | J050213ALCD | ORG | 103-65-1 | n-Propylbenzene | 43 | | ug/L | 2 | 0.27 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 86% | 5% | |
| J050213ALCD | J050213ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 92% | 4% | |
| J050213ALCD | J050213ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 88% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 88% | 4% | |
| J050213ALCD | J050213ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 82% | 5% | |
| J050213ALCD | J050213ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 90% | 4% | |
| J050213ALCD | J050213ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 94% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 92% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 90% | 2% | |
| J050213ALCD | J050213ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 90% | 7% | |
| J050213ALCD | J050213ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 55 | | ug/L | 5 | 0.65 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 110% | 14% | |
| J050213ALCD | J050213ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 98% | 6% | |
| J050213ALCD | J050213ALCD | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 84% | 0% | |
| J050213ALCD | J050213ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 96% | 6% | |
| J050213ALCD | J050213ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 102% | 2% | |
| J050213ALCD | J050213ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 94% | 4% | |
| J050213ALCD | J050213ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 92% | 0% | |
| J050213ALCD | J050213ALCD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/2/2013 | 5/2/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7936 | 50 | 92% | 6% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149MS | Ops Batch 84 | ORG | 75-71-8 | Dichlorodifluoromethane | 3700 | | ug/L | 500 | 29.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 74% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 74-87-3 | Chloromethane | 3200 | | ug/L | 500 | 43.07 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 64% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-01-4 | Vinyl chloride | 4000 | | ug/L | 200 | 31.86 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 80% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 74-83-9 | Bromomethane | 5700 | | ug/L | 500 | 50.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 114% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 106% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-69-4 | Trichlorofluoromethane | 4500 | | ug/L | 500 | 19.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 90% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-35-4 | 1,1-Dichloroethene | 5800 | | ug/L | 100 | 47.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 116% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-09-2 | Methylene chloride | 5600 | | ug/L | 500 | 26.46 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 112% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 67-64-1 | Acetone | 72000 | | ug/L | 1000 | 155.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 100% | | 67000 |
| NAL13026-149MS | Ops Batch 84 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5900 | | ug/L | 100 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 118% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 104% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 104% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5900 | | ug/L | 100 | 32.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 118% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 74-97-5 | Bromochloromethane | 5700 | | ug/L | 1000 | 81.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 114% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 67-66-3 | Chloroform | 5500 | | ug/L | 200 | 41.37 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 110% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 116% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 78-93-3 | 2-Butanone | 39000 | | ug/L | 100 | 16.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 140% | | 32000 |
| NAL13026-149MS | Ops Batch 84 | ORG | 56-23-5 | Carbon tetrachloride | 6000 | | ug/L | 100 | 27.64 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 120% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 71-43-2 | Benzene | 5600 | | ug/L | 100 | 13.53 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 111% | | 27 |
| NAL13026-149MS | Ops Batch 84 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 110% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 79-01-6 | Trichloroethene | 5300 | | ug/L | 100 | 36.33 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 106% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 74-95-3 | Dibromomethane | 5700 | | ug/L | 200 | 32.20 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 114% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 78-87-5 | 1,2-Dichloropropane | 5800 | | ug/L | 100 | 18.17 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 116% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-27-4 | Bromodichloromethane | 5300 | | ug/L | 200 | 11.58 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 106% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5600 | | ug/L | 100 | 25.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 112% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 108-88-3 | Toluene | 5100 | | ug/L | 100 | 74.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 101% | | 47 |
| NAL13026-149MS | Ops Batch 84 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 500 | 20.96 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 96% | | 490 |
| NAL13026-149MS | Ops Batch 84 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5600 | | ug/L | 100 | 31.15 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 112% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 127-18-4 | Tetrachloroethene | 3900 | | ug/L | 100 | 48.56 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 78% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 104% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 124-48-1 | Dibromochloromethane | 5700 | | ug/L | 500 | 68.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 114% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 106% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 591-78-6 | 2-Hexanone | 4700 | | ug/L | 200 | 26.49 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 89% | | 260 |
| NAL13026-149MS | Ops Batch 84 | ORG | 100-41-4 | Ethylbenzene | 5000 | | ug/L | 100 | 25.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 99% | | 52 |
| NAL13026-149MS | Ops Batch 84 | ORG | 108-90-7 | Chlorobenzene | 5200 | | ug/L | 100 | 27.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 104% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5400 | | ug/L | 200 | 19.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 108% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | XYLMP | p&m-Xylene | 9800 | | ug/L | 200 | 26.14 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 10000 | 97% | | 140 |
| NAL13026-149MS | Ops Batch 84 | ORG | 95-47-6 | o-Xylene | 5000 | | ug/L | 100 | 12.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 99% | | 56 |
| NAL13026-149MS | Ops Batch 84 | ORG | 100-42-5 | Styrene | 5000 | | ug/L | 100 | 20.23 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 98% | | 81 |
| NAL13026-149MS | Ops Batch 84 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149MS | Ops Batch 84 | ORG | 98-82-8 | Isopropylbenzene | 5100 | | ug/L | 200 | 20.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 101% | | 58 |
| NAL13026-149MS | Ops Batch 84 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 96% | | 78 |
| NAL13026-149MS | Ops Batch 84 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5000 | | ug/L | 200 | 29.47 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 100% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 94% | | 110 |
| NAL13026-149MS | Ops Batch 84 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 87% | | 150 |
| NAL13026-149MS | Ops Batch 84 | ORG | 135-98-8 | sec-Butylbenzene | 5200 | | ug/L | 200 | 32.34 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 103% | | 69 |
| NAL13026-149MS | Ops Batch 84 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 99-87-6 | p-Isopropltoluene | 5300 | | ug/L | 200 | 25.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | 220 |
| NAL13026-149MS | Ops Batch 84 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5100 | | ug/L | 200 | 33.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 99% | | 150 |
| NAL13026-149MS | Ops Batch 84 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 94% | | 120 |
| NAL13026-149MS | Ops Batch 84 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4800 | | ug/L | 500 | 159.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 96% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 87-68-3 | Hexachlorobutadiene | 5400 | | ug/L | 500 | 65.42 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 108% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5100 | | ug/L | 500 | 27.63 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 89% | | 350 |
| NAL13026-149MS | Ops Batch 84 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5100 | | ug/L | 500 | 23.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 5000 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 50 | 102% | | |
| NAL13026-149MS | Ops Batch 84 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 50 | 94% | | |
| NAL13026-149MS | Ops Batch 84 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 50 | 94% | | |
| NAL13026-149MS | Ops Batch 84 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7928 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-71-8 | Dichlorodifluoromethane | 3800 | | ug/L | 500 | 29.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 76% | 3% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 74-87-3 | Chloromethane | 3200 | | ug/L | 500 | 43.07 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 64% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-01-4 | Vinyl chloride | 4000 | | ug/L | 200 | 31.86 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 80% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 74-83-9 | Bromomethane | 5900 | | ug/L | 500 | 50.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 118% | 3% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-00-3 | Chloroethane | 4900 | | ug/L | 500 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 8% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-69-4 | Trichlorofluoromethane | 4900 | | ug/L | 500 | 19.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 9% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-35-4 | 1,1-Dichloroethene | 5500 | | ug/L | 100 | 47.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 110% | 5% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-09-2 | Methylene chloride | 5400 | | ug/L | 500 | 26.46 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 108% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 67-64-1 | Acetone | 69000 | | ug/L | 1000 | 155.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 40% | 4% | 67000 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 110% | 7% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 1634-04-4 | MTBE | 5100 | | ug/L | 500 | 61.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-34-3 | 1,1-Dichloroethane | 4900 | | ug/L | 100 | 52.66 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 6% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5800 | | ug/L | 100 | 32.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 116% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 74-97-5 | Bromochloromethane | 5600 | | ug/L | 1000 | 81.18 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 112% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 67-66-3 | Chloroform | 5400 | | ug/L | 200 | 41.37 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 108% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 114% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 78-93-3 | 2-Butanone | 40000 | | ug/L | 100 | 16.65 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 160% | 3% | 32000 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 56-23-5 | Carbon tetrachloride | 5900 | | ug/L | 100 | 27.64 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 118% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 107% | 4% | 27 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 110% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 79-01-6 | Trichloroethene | 5200 | | ug/L | 100 | 36.33 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 104% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 110% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 112% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 104% | 7% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 100 | 74.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 97% | 4% | 47 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 500 | 20.96 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 92% | 4% | 490 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 108% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 127-18-4 | Tetrachloroethene | 3700 | | ug/L | 100 | 48.56 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 74% | 5% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 100% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 108% | 5% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 591-78-6 | 2-Hexanone | 4600 | | ug/L | 200 | 26.49 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 87% | 2% | 260 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 95% | 4% | 52 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 108-90-7 | Chlorobenzene | 5000 | | ug/L | 100 | 27.52 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 100% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 6% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | XYLMP | p&m-Xylene | 9400 | | ug/L | 200 | 26.14 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 10000 | 93% | 4% | 140 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 95% | 4% | 56 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 94% | 4% | 81 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 75-25-2 | Bromoform | 5400 | | ug/L | 200 | 46.83 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 108% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-149MSD | Ops Batch 84 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 95% | 6% | 58 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 94% | 2% | 78 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 92% | 2% | 110 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 98-06-6 | tert-Butylbenzene | 4900 | | ug/L | 200 | 32.61 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 4% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 87% | 0% | 150 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 135-98-8 | sec-Butylbenzene | 5000 | | ug/L | 200 | 32.34 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 99% | 4% | 69 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 99-87-6 | p-Isopropltoluene | 5100 | | ug/L | 200 | 25.48 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 4% | 220 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 103% | 4% | 150 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 104% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 92% | 2% | 120 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4900 | | ug/L | 500 | 159.11 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 98% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 6% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5100 | | ug/L | 500 | 27.63 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 91% | 2% | 350 |
| NAL13026-149MSD | Ops Batch 84 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5100 | | ug/L | 500 | 23.28 | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 5000 | 102% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 50 | 102% | 0% | 0 |
| NAL13026-149MSD | Ops Batch 84 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 50 | 96% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 50 | 92% | 2% | 0 |
| NAL13026-149MSD | Ops Batch 84 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/2/2013 | 5/2/2013 | 5/2/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7929 | 50 | 98% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152 | Ops Batch 87 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 67-64-1 | Acetone | 64000 | D | ug/L | 10000 | 1556 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7948 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 78-93-3 | 2-Butanone | 28000 | D | ug/L | 10000 | 811.80 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7948 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 490 | J | ug/L | 500 | 74.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 68.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 100-41-4 | Ethylbenzene | 27 | J | ug/L | 100 | 25.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | XYLMP | p&m-Xylene | 72 | J | ug/L | 200 | 26.14 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 100-42-5 | Styrene | 39 | J | ug/L | 100 | 20.23 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 98-82-8 | Isopropylbenzene | 41 | J | ug/L | 200 | 20.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152 | Ops Batch 87 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 97 | J | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 320 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 135-98-8 | sec-Butylbenzene | 260 | | ug/L | 200 | 32.34 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 99-87-6 | p-Isopropltoluene | 2000 | | ug/L | 200 | 25.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 390 | | ug/L | 200 | 33.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 104-51-8 | n-Butylbenzene | 140 | J | ug/L | 500 | 27.81 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 91-20-3 | Naphthalene | 850 | | ug/L | 500 | 56.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | | | | |
| NAL13026-152 | Ops Batch 87 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | 50 | 106% | | |
| NAL13026-152 | Ops Batch 87 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | 50 | 108% | | |
| NAL13026-152 | Ops Batch 87 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | 50 | 92% | | |
| NAL13026-152 | Ops Batch 87 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7943 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-153 | Ops Batch 88 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 67-64-1 | Acetone | 56000 | D | ug/L | 10000 | 1556.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7949 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 67-66-3 | Chloroform | 75 | J | ug/L | 100 | 41.37 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 68 | J | ug/L | 100 | 15.73 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 78-93-3 | 2-Butanone | 27000 | D | ug/L | 10000 | 166.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7949 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 71-43-2 | Benzene | 97 | J | ug/L | 100 | 13.53 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 94 | J | ug/L | 100 | 25.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 108-88-3 | Toluene | 86 | J | ug/L | 100 | 74.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 760 | | ug/L | 500 | 20.96 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 110 | | ug/L | 100 | 31.15 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 124-48-1 | Dibromochloromethane | 99 | J | ug/L | 200 | 68.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 106-93-4 | 1,2-Dibromoethane | 110 | J | ug/L | 200 | 29.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 591-78-6 | 2-Hexanone | 550 | | ug/L | 500 | 26.49 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 100-41-4 | Ethylbenzene | 120 | | ug/L | 100 | 25.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 108-90-7 | Chlorobenzene | 81 | J | ug/L | 100 | 27.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | XYLMP | p&m-Xylene | 300 | | ug/L | 200 | 26.14 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 95-47-6 | o-Xylene | 180 | | ug/L | 100 | 12.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 100-42-5 | Styrene | 110 | | ug/L | 100 | 20.23 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 98-82-8 | Isopropylbenzene | 150 | J | ug/L | 200 | 20.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-153 | Ops Batch 88 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 260 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 800 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 135-98-8 | sec-Butylbenzene | 660 | | ug/L | 200 | 32.34 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 99-87-6 | p-Isopropltoluene | 4600 | | ug/L | 200 | 25.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 940 | | ug/L | 200 | 33.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 104-51-8 | n-Butylbenzene | 230 | J | ug/L | 500 | 27.81 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 110 | J | ug/L | 500 | 27.63 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 91-20-3 | Naphthalene | 1500 | | ug/L | 500 | 56.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 97 | J | ug/L | 500 | 23.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | | | | |
| NAL13026-153 | Ops Batch 88 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | 50 | 108% | | |
| NAL13026-153 | Ops Batch 88 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | 50 | 110% | | |
| NAL13026-153 | Ops Batch 88 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | 50 | 94% | | |
| NAL13026-153 | Ops Batch 88 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7944 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 67-64-1 | Acetone | 58000 | D | ug/L | 10000 | 1556.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7950 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 78-93-3 | 2-Butanone | 33000 | D | ug/L | 10000 | 166.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7950 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 71-43-2 | Benzene | 14 | J | ug/L | 100 | 13.53 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 840 | | ug/L | 500 | 20.96 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 591-78-6 | 2-Hexanone | 480 | J | ug/L | 500 | 26.49 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-154 | Ops Batch 89-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 620 | | ug/L | 200 | 29.16 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 83 | J | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 160 | J | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 135-98-8 | sec-Butylbenzene | 130 | J | ug/L | 200 | 32.34 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 99-87-6 | p-Isopropltoluene | 680 | | ug/L | 200 | 25.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 180 | U | ug/L | 200 | 33.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 91-20-3 | Naphthalene | 390 | J | ug/L | 500 | 56.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | | | | |
| NAL13026-154 | Ops Batch 89-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | 50 | 104% | | |
| NAL13026-154 | Ops Batch 89-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | 50 | 106% | | |
| NAL13026-154 | Ops Batch 89-MSD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | 50 | 90% | | |
| NAL13026-154 | Ops Batch 89-MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7951 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313CCVA | J050313CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 27 | | ug/L | 5 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 54% | | |
| J050313CCVA | J050313CCVA | ORG | 74-87-3 | Chloromethane | 30 | | ug/L | 5 | 0.43 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 60% | | |
| J050313CCVA | J050313CCVA | ORG | 75-01-4 | Vinyl chloride | 37 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 74% | | |
| J050313CCVA | J050313CCVA | ORG | 74-83-9 | Bromomethane | 51 | | ug/L | 5 | 0.50 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 102% | | |
| J050313CCVA | J050313CCVA | ORG | 75-00-3 | Chloroethane | 68 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 136% | | |
| J050313CCVA | J050313CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 98% | | |
| J050313CCVA | J050313CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 55 | | ug/L | 1 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 110% | | |
| J050313CCVA | J050313CCVA | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 112% | | |
| J050313CCVA | J050313CCVA | ORG | 67-64-1 | Acetone | 47 | | ug/L | 10 | 1.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 116% | | |
| J050313CCVA | J050313CCVA | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 106% | | |
| J050313CCVA | J050313CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 114% | | |
| J050313CCVA | J050313CCVA | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 108% | | |
| J050313CCVA | J050313CCVA | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 108% | | |
| J050313CCVA | J050313CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 112% | | |
| J050313CCVA | J050313CCVA | ORG | 78-93-3 | 2-Butanone | 58 | | ug/L | 1 | 0.17 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 116% | | |
| J050313CCVA | J050313CCVA | ORG | 56-23-5 | Carbon tetrachloride | 59 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 118% | | |
| J050313CCVA | J050313CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 108% | | |
| J050313CCVA | J050313CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 51 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 102% | | |
| J050313CCVA | J050313CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 106% | | |
| J050313CCVA | J050313CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 55 | | ug/L | 1 | 0.18 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 110% | | |
| J050313CCVA | J050313CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 102% | | |
| J050313CCVA | J050313CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 108-88-3 | Toluene | 49 | | ug/L | 1 | 0.74 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 98% | | |
| J050313CCVA | J050313CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 5 | 0.21 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 114% | | |
| J050313CCVA | J050313CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 127-18-4 | Tetrachloroethene | 36 | | ug/L | 1 | 0.49 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 72% | | |
| J050313CCVA | J050313CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 112% | | |
| J050313CCVA | J050313CCVA | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 98% | | |
| J050313CCVA | J050313CCVA | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 100 | 91% | | |
| J050313CCVA | J050313CCVA | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |
| J050313CCVA | J050313CCVA | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313CCVA | J050313CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 88% | | |
| J050313CCVA | J050313CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 44 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 88% | | |
| J050313CCVA | J050313CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |
| J050313CCVA | J050313CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 86% | | |
| J050313CCVA | J050313CCVA | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 98% | | |
| J050313CCVA | J050313CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |
| J050313CCVA | J050313CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 98% | | |
| J050313CCVA | J050313CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |
| J050313CCVA | J050313CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |
| J050313CCVA | J050313CCVA | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 39 | | ug/L | 5 | 1.59 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 78% | | |
| J050313CCVA | J050313CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 104% | | |
| J050313CCVA | J050313CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | ORG | 91-20-3 | Naphthalene | 40 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 80% | | |
| J050313CCVA | J050313CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 102% | | |
| J050313CCVA | J050313CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 94% | | |
| J050313CCVA | J050313CCVA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 92% | | |
| J050313CCVA | J050313CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7938 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313MBKA | J050313MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 1 | 0.74 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 5 | 0.21 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313MBKA | J050313MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | | | | |
| J050313MBKA | J050313MBKA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | 50 | 106% | | |
| J050313MBKA | J050313MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | 50 | 104% | | |
| J050313MBKA | J050313MBKA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | 50 | 92% | | |
| J050313MBKA | J050313MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7939 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ALCS | J050313ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 29 | | ug/L | 5 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 58% | | |
| J050313ALCS | J050313ALCS | ORG | 74-87-3 | Chloromethane | 32 | | ug/L | 5 | 0.43 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 64% | | |
| J050313ALCS | J050313ALCS | ORG | 75-01-4 | Vinyl chloride | 36 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 72% | | |
| J050313ALCS | J050313ALCS | ORG | 74-83-9 | Bromomethane | 54 | | ug/L | 5 | 0.50 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 108% | | |
| J050313ALCS | J050313ALCS | ORG | 75-00-3 | Chloroethane | 56 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 112% | | |
| J050313ALCS | J050313ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 98% | | |
| J050313ALCS | J050313ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 57 | | ug/L | 1 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 120% | | |
| J050313ALCS | J050313ALCS | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 112% | | |
| J050313ALCS | J050313ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 112% | | |
| J050313ALCS | J050313ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 120% | | |
| J050313ALCS | J050313ALCS | ORG | 74-97-5 | Bromochloromethane | 58 | | ug/L | 10 | 0.81 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 116% | | |
| J050313ALCS | J050313ALCS | ORG | 67-66-3 | Chloroform | 57 | | ug/L | 2 | 0.41 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 60 | | ug/L | 1 | 0.16 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 120% | | |
| J050313ALCS | J050313ALCS | ORG | 78-93-3 | 2-Butanone | 63 | | ug/L | 1 | 0.17 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 126% | | |
| J050313ALCS | J050313ALCS | ORG | 56-23-5 | Carbon tetrachloride | 62 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 124% | | |
| J050313ALCS | J050313ALCS | ORG | 71-43-2 | Benzene | 57 | | ug/L | 1 | 0.14 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 57 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 79-01-6 | Trichloroethene | 54 | | ug/L | 1 | 0.36 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 108% | | |
| J050313ALCS | J050313ALCS | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 114% | | |
| J050313ALCS | J050313ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 58 | | ug/L | 1 | 0.18 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 116% | | |
| J050313ALCS | J050313ALCS | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 106% | | |
| J050313ALCS | J050313ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 108% | | |
| J050313ALCS | J050313ALCS | ORG | 108-88-3 | Toluene | 51 | | ug/L | 1 | 0.74 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 5 | 0.21 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 116% | | |
| J050313ALCS | J050313ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 110% | | |
| J050313ALCS | J050313ALCS | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 78% | | |
| J050313ALCS | J050313ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 51 | | ug/L | 1 | 0.34 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | 124-48-1 | Dibromochloromethane | 55 | | ug/L | 5 | 0.69 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 110% | | |
| J050313ALCS | J050313ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | 591-78-6 | 2-Hexanone | 60 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 120% | | |
| J050313ALCS | J050313ALCS | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 108-90-7 | Chlorobenzene | 48 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.19 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | XYLMP | p&m-Xylene | 93 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 100 | 93% | | |
| J050313ALCS | J050313ALCS | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ALCS | J050313ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 92% | | |
| J050313ALCS | J050313ALCS | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 88% | | |
| J050313ALCS | J050313ALCS | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 98% | | |
| J050313ALCS | J050313ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 98% | | |
| J050313ALCS | J050313ALCS | ORG | 99-87-6 | p-Isopropltoluene | 50 | | ug/L | 2 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 100% | | |
| J050313ALCS | J050313ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 102% | | |
| J050313ALCS | J050313ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 100% | | |
| J050313ALCS | J050313ALCS | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 94% | | |
| J050313ALCS | J050313ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 84% | | |
| J050313ALCS | J050313ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 106% | | |
| J050313ALCS | J050313ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 84% | | |
| J050313ALCS | J050313ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |
| J050313ALCS | J050313ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 104% | | |
| J050313ALCS | J050313ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 98% | | |
| J050313ALCS | J050313ALCS | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 92% | | |
| J050313ALCS | J050313ALCS | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7940 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ALCD | J050313ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 28 | | ug/L | 5 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 56% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 74-87-3 | Chloromethane | 28 | | ug/L | 5 | 0.43 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 56% | 13% | |
| J050313ALCD | J050313ALCD | ORG | 75-01-4 | Vinyl chloride | 36 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 72% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 74-83-9 | Bromomethane | 57 | | ug/L | 5 | 0.50 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 114% | 5% | |
| J050313ALCD | J050313ALCD | ORG | 75-00-3 | Chloroethane | 56 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 112% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 104% | 6% | |
| J050313ALCD | J050313ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 59 | | ug/L | 1 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 118% | 3% | |
| J050313ALCD | J050313ALCD | ORG | 75-09-2 | Methylene chloride | 59 | | ug/L | 5 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 118% | 3% | |
| J050313ALCD | J050313ALCD | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 122% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 1634-04-4 | MTBE | 55 | | ug/L | 5 | 0.61 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 110% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 112% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 122% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 74-97-5 | Bromochloromethane | 58 | | ug/L | 10 | 0.81 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 116% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 67-66-3 | Chloroform | 58 | | ug/L | 2 | 0.41 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 116% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 61 | | ug/L | 1 | 0.16 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 122% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 78-93-3 | 2-Butanone | 62 | | ug/L | 1 | 0.17 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 124% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 56-23-5 | Carbon tetrachloride | 63 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 126% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 71-43-2 | Benzene | 58 | | ug/L | 1 | 0.14 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 116% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 57 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 114% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 110% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 114% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 59 | | ug/L | 1 | 0.18 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 118% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 108-88-3 | Toluene | 51 | | ug/L | 1 | 0.74 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 102% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 5 | 0.21 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 116% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.31 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 78% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 108% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 591-78-6 | 2-Hexanone | 58 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 116% | 3% | |
| J050313ALCD | J050313ALCD | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 108-90-7 | Chlorobenzene | 51 | | ug/L | 1 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 102% | 6% | |
| J050313ALCD | J050313ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.19 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 4% | |
| J050313ALCD | J050313ALCD | ORG | XYLMP | p&m-Xylene | 97 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 100 | 97% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 95-47-6 | o-Xylene | 49 | | ug/L | 1 | 0.13 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 98-82-8 | Isopropylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 6% | |
| J050313ALCD | J050313ALCD | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ALCD | J050313ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 96% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 94% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 6% | |
| J050313ALCD | J050313ALCD | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 92% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 135-98-8 | sec-Butylbenzene | 51 | | ug/L | 2 | 0.32 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 102% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 102% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 99-87-6 | p-Isopropltoluene | 51 | | ug/L | 2 | 0.25 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 102% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 96% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 43 | | ug/L | 5 | 1.59 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 86% | 2% | |
| J050313ALCD | J050313ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 106% | 0% | |
| J050313ALCD | J050313ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 4% | |
| J050313ALCD | J050313ALCD | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 88% | 5% | |
| J050313ALCD | J050313ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 100% | 4% | |
| J050313ALCD | J050313ALCD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 104% | 0% | |
| J050313ALCD | J050313ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 96% | 2% | |
| J050313ALCD | J050313ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 92% | 0% | |
| J050313ALCD | J050313ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/3/2013 | 5/3/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7941 | 50 | 98% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152MS | Ops Batch 87 | ORG | 75-71-8 | Dichlorodifluoromethane | 2700 | | ug/L | 500 | 29.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 54% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 74-87-3 | Chloromethane | 2700 | | ug/L | 500 | 43.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 54% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 74% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 74-83-9 | Bromomethane | 5600 | | ug/L | 500 | 50.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 112% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-00-3 | Chloroethane | 6500 | | ug/L | 500 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 130% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 102% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-35-4 | 1,1-Dichloroethene | 5700 | | ug/L | 100 | 47.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 114% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-09-2 | Methylene chloride | 5800 | | ug/L | 500 | 26.46 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 116% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 67-64-1 | Acetone | 67000 | | ug/L | 1000 | 155.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 60% | | 64000 |
| NAL13026-152MS | Ops Batch 87 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5900 | | ug/L | 100 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 118% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-34-3 | 1,1-Dichloroethane | 5300 | | ug/L | 100 | 52.66 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 106% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 114% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 74-97-5 | Bromochloromethane | 5500 | | ug/L | 1000 | 81.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 110% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 67-66-3 | Chloroform | 5300 | | ug/L | 200 | 41.37 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 106% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 114% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 78-93-3 | 2-Butanone | 33000 | | ug/L | 100 | 16.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 100% | | 28000 |
| NAL13026-152MS | Ops Batch 87 | ORG | 56-23-5 | Carbon tetrachloride | 5800 | | ug/L | 100 | 27.64 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 116% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 108% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 107-06-2 | 1,2-Dichloroethane | 5400 | | ug/L | 100 | 20.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 108% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 79-01-6 | Trichloroethene | 5200 | | ug/L | 100 | 36.33 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 108% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 112% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 100% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 100 | 74.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 98% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4600 | | ug/L | 500 | 20.96 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 82% | | 490 |
| NAL13026-152MS | Ops Batch 87 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5200 | | ug/L | 100 | 31.15 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 127-18-4 | Tetrachloroethene | 3800 | | ug/L | 100 | 48.56 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 76% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 96% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 106-93-4 | 1,2-Dibromoethane | 4900 | | ug/L | 200 | 29.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 98% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 76% | | 280 |
| NAL13026-152MS | Ops Batch 87 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 95% | | 27 |
| NAL13026-152MS | Ops Batch 87 | ORG | 108-90-7 | Chlorobenzene | 4900 | | ug/L | 100 | 27.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 98% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 102% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | XYLMP | p&m-Xylene | 9400 | | ug/L | 200 | 26.14 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 10000 | 93% | | 72 |
| NAL13026-152MS | Ops Batch 87 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 96% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 100-42-5 | Styrene | 4700 | | ug/L | 100 | 20.23 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 93% | | 39 |
| NAL13026-152MS | Ops Batch 87 | ORG | 75-25-2 | Bromoform | 4900 | | ug/L | 200 | 46.83 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 98% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 95% | | 41 |
| NAL13026-152MS | Ops Batch 87 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152MS | Ops Batch 87 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4400 | | ug/L | 200 | 29.16 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 88% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4400 | | ug/L | 200 | 29.47 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 88% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 92% | | 97 |
| NAL13026-152MS | Ops Batch 87 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 96% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 84% | | 320 |
| NAL13026-152MS | Ops Batch 87 | ORG | 135-98-8 | sec-Butylbenzene | 4800 | | ug/L | 200 | 32.34 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 91% | | 260 |
| NAL13026-152MS | Ops Batch 87 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 94% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 99-87-6 | p-Isopropltoluene | 6700 | | ug/L | 200 | 25.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 94% | | 2000 |
| NAL13026-152MS | Ops Batch 87 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 90% | | 390 |
| NAL13026-152MS | Ops Batch 87 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4700 | | ug/L | 200 | 26.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 94% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 104-51-8 | n-Butylbenzene | 4600 | | ug/L | 500 | 27.81 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 89% | | 140 |
| NAL13026-152MS | Ops Batch 87 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 108% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 87-68-3 | Hexachlorobutadiene | 4800 | | ug/L | 500 | 65.42 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 96% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4600 | | ug/L | 500 | 27.63 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 92% | | |
| NAL13026-152MS | Ops Batch 87 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 81% | | 850 |
| NAL13026-152MS | Ops Batch 87 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4500 | | ug/L | 500 | 23.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 5000 | 90% | | |
| NAL13026-152MS | Ops Batch 87 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 50 | 104% | | |
| NAL13026-152MS | Ops Batch 87 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 50 | 96% | | |
| NAL13026-152MS | Ops Batch 87 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 50 | 92% | | |
| NAL13026-152MS | Ops Batch 87 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7945 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-71-8 | Dichlorodifluoromethane | 2600 | | ug/L | 500 | 29.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 52% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 74-87-3 | Chloromethane | 2600 | | ug/L | 500 | 43.07 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 52% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-01-4 | Vinyl chloride | 3400 | | ug/L | 200 | 31.86 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 68% | 8% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 74-83-9 | Bromomethane | 5500 | | ug/L | 500 | 50.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-00-3 | Chloroethane | 6100 | | ug/L | 500 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 122% | 6% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-69-4 | Trichlorofluoromethane | 4500 | | ug/L | 500 | 19.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 90% | 13% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-35-4 | 1,1-Dichloroethene | 5300 | | ug/L | 100 | 47.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 106% | 7% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-09-2 | Methylene chloride | 5500 | | ug/L | 500 | 26.46 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 5% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 67-64-1 | Acetone | 73000 | | ug/L | 1000 | 155.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 180% | 9% | 64000 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5600 | | ug/L | 100 | 55.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 112% | 5% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 1634-04-4 | MTBE | 5600 | | ug/L | 500 | 61.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 112% | 7% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 102% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 114% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 74-97-5 | Bromochloromethane | 5500 | | ug/L | 1000 | 81.18 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 67-66-3 | Chloroform | 5200 | | ug/L | 200 | 41.37 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 104% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5500 | | ug/L | 100 | 15.73 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 78-93-3 | 2-Butanone | 38000 | | ug/L | 100 | 16.65 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 200% | 14% | 28000 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 112% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 104% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 102% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 110% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 112% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 100% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 104% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 108-88-3 | Toluene | 4700 | | ug/L | 100 | 74.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 94% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 500 | 20.96 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 10% | 490 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5200 | | ug/L | 100 | 31.15 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 104% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 127-18-4 | Tetrachloroethene | 3600 | | ug/L | 100 | 48.56 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 72% | 5% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 100% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 124-48-1 | Dibromochloromethane | 5300 | | ug/L | 500 | 68.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 106% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 106-93-4 | 1,2-Dibromoethane | 4900 | | ug/L | 200 | 29.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 98% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 591-78-6 | 2-Hexanone | 4400 | | ug/L | 200 | 26.49 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 82% | 7% | 280 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 91% | 4% | 27 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 6% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5000 | | ug/L | 200 | 19.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 100% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | XYLMP | p&m-Xylene | 9000 | | ug/L | 200 | 26.14 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 10000 | 89% | 4% | 72 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 91% | 2% | 39 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 102% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 98-82-8 | Isopropylbenzene | 4600 | | ug/L | 200 | 20.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 91% | 4% | 41 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 90% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-152MSD | Ops Batch 87 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4800 | | ug/L | 200 | 29.16 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 96% | 9% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4700 | | ug/L | 200 | 29.47 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 94% | 7% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 88% | 4% | 97 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 82% | 2% | 320 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 87% | 4% | 260 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4600 | | ug/L | 200 | 22.21 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 99-87-6 | p-Isopropltoluene | 6500 | | ug/L | 200 | 25.48 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 90% | 3% | 2000 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 90% | 0% | 390 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4700 | | ug/L | 200 | 26.38 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 94% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 104-51-8 | n-Butylbenzene | 4400 | | ug/L | 500 | 27.81 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 85% | 4% | 140 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5600 | | ug/L | 500 | 159.11 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 112% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 87-68-3 | Hexachlorobutadiene | 4600 | | ug/L | 500 | 65.42 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 92% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4400 | | ug/L | 500 | 27.63 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 88% | 4% | 0 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 91-20-3 | Naphthalene | 5100 | | ug/L | 500 | 56.04 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 85% | 4% | 850 |
| NAL13026-152MSD | Ops Batch 87 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4500 | | ug/L | 500 | 23.28 | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 5000 | 90% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 50 | 106% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 50 | 98% | 2% | 0 |
| NAL13026-152MSD | Ops Batch 87 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 50 | 92% | 0% | 0 |
| NAL13026-152MSD | Ops Batch 87 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/3/2013 | 5/3/2013 | 5/3/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7946 | 50 | 100% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155 | Ops Batch 90 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 67-64-1 | Acetone | 67000 | D | ug/L | 10000 | 1556.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7973 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 78-93-3 | 2-Butanone | 39000 | D | ug/L | 10000 | 811.80 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7973 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 71-43-2 | Benzene | 41 | J | ug/L | 100 | 13.53 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 79-01-6 | Trichloroethene | 73 | J | ug/L | 100 | 36.33 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 108-88-3 | Toluene | 60 | J | ug/L | 100 | 20.96 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 650 | X+ | ug/L | 500 | 74.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 127-18-4 | Tetrachloroethene | 110 | | ug/L | 100 | 48.56 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 591-78-6 | 2-Hexanone | 600 | X+ | ug/L | 500 | 68.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 100-41-4 | Ethylbenzene | 62 | J | ug/L | 100 | 25.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 108-90-7 | Chlorobenzene | 64 | J | ug/L | 100 | 27.52 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | XYLMP | p&m-Xylene | 138 | J | ug/L | 200 | 26.14 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 95-47-6 | o-Xylene | 57 | J | ug/L | 100 | 12.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 98-82-8 | Isopropylbenzene | 59 | J | ug/L | 200 | 20.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 103-65-1 | n-Propylbenzene | 76 | J | ug/L | 200 | 27.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155 | Ops Batch 90 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 82 | J | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 170 | J | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 135-98-8 | sec-Butylbenzene | 78 | J | ug/L | 200 | 32.34 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 99-87-6 | p-Isopropltoluene | 450 | | ug/L | 200 | 25.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 210 | | ug/L | 200 | 33.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 190 | J | ug/L | 500 | 27.63 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 91-20-3 | Naphthalene | 670 | | ug/L | 500 | 56.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 250 | J | ug/L | 500 | 23.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | | | | |
| NAL13026-155 | Ops Batch 90 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | 50 | 100% | | |
| NAL13026-155 | Ops Batch 90 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | 50 | 98% | | |
| NAL13026-155 | Ops Batch 90 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | 50 | 96% | | |
| NAL13026-155 | Ops Batch 90 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7971 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-156 | Ops Batch 91 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 67-64-1 | Acetone | 63000 | D | ug/L | 10000 | 1556.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7974 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 78-93-3 | 2-Butanone | 37000 | D | ug/L | 10000 | 166.52 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7974 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 71-43-2 | Benzene | 54 | J | ug/L | 100 | 13.53 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 108-88-3 | Toluene | 57 | J | ug/L | 100 | 74.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 870 | X+ | ug/L | 500 | 20.96 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 591-78-6 | 2-Hexanone | 610 | X+ | ug/L | 500 | 26.49 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 100-41-4 | Ethylbenzene | 64 | J | ug/L | 100 | 25.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 108-90-7 | Chlorobenzene | 53 | J | ug/L | 100 | 27.52 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | XYLMP | p&m-Xylene | 150 | J | ug/L | 200 | 26.14 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 95-47-6 | o-Xylene | 76 | J | ug/L | 100 | 12.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 98-82-8 | Isopropylbenzene | 71 | J | ug/L | 200 | 20.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 103-65-1 | n-Propylbenzene | 82 | J | ug/L | 200 | 27.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-156 | Ops Batch 91 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 270 | | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 135-98-8 | sec-Butylbenzene | 97 | J | ug/L | 200 | 32.34 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 99-87-6 | p-Isopropltoluene | 1000 | | ug/L | 200 | 25.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 330 | | ug/L | 200 | 33.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 104-51-8 | n-Butylbenzene | 180 | J | ug/L | 500 | 27.81 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 220 | J | ug/L | 500 | 27.63 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 91-20-3 | Naphthalene | 830 | | ug/L | 500 | 56.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 310 | J | ug/L | 500 | 23.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | | | | |
| NAL13026-156 | Ops Batch 91 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | 50 | 102% | | |
| NAL13026-156 | Ops Batch 91 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | 50 | 100% | | |
| NAL13026-156 | Ops Batch 91 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | 50 | 94% | | |
| NAL13026-156 | Ops Batch 91 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7972 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050413CCVA | J050413CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 43 | | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 86% | | |
| J050413CCVA | J050413CCVA | ORG | 74-87-3 | Chloromethane | 59 | | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 118% | | |
| J050413CCVA | J050413CCVA | ORG | 75-01-4 | Vinyl chloride | 45 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 90% | | |
| J050413CCVA | J050413CCVA | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 82% | | |
| J050413CCVA | J050413CCVA | ORG | 75-00-3 | Chloroethane | 92 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 184% | | |
| J050413CCVA | J050413CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 100% | | |
| J050413CCVA | J050413CCVA | ORG | 75-09-2 | Methylene chloride | 49 | | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 98% | | |
| J050413CCVA | J050413CCVA | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 114% | | |
| J050413CCVA | J050413CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 102% | | |
| J050413CCVA | J050413CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 43 | | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 86% | | |
| J050413CCVA | J050413CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 67-66-3 | Chloroform | 46 | | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 92% | | |
| J050413CCVA | J050413CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 78-93-3 | 2-Butanone | 47 | | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 98% | | |
| J050413CCVA | J050413CCVA | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 45 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 90% | | |
| J050413CCVA | J050413CCVA | ORG | 79-01-6 | Trichloroethene | 47 | | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 74-95-3 | Dibromomethane | 48 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 98% | | |
| J050413CCVA | J050413CCVA | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 98% | | |
| J050413CCVA | J050413CCVA | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 92% | | |
| J050413CCVA | J050413CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 63 | | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 126% | | |
| J050413CCVA | J050413CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 591-78-6 | 2-Hexanone | 64 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 128% | | |
| J050413CCVA | J050413CCVA | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 108-90-7 | Chlorobenzene | 44 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 90% | | |
| J050413CCVA | J050413CCVA | ORG | XYLMP | p&m-Xylene | 86 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 100 | 86% | | |
| J050413CCVA | J050413CCVA | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 90% | | |
| J050413CCVA | J050413CCVA | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050413CCVA | J050413CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 92% | | |
| J050413CCVA | J050413CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 98% | | |
| J050413CCVA | J050413CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 86% | | |
| J050413CCVA | J050413CCVA | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 92% | | |
| J050413CCVA | J050413CCVA | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 84% | | |
| J050413CCVA | J050413CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 104% | | |
| J050413CCVA | J050413CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 94% | | |
| J050413CCVA | J050413CCVA | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 84% | | |
| J050413CCVA | J050413CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 92% | | |
| J050413CCVA | J050413CCVA | STD | 1868-53-7 | Dibromofluoromethane | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 44 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 88% | | |
| J050413CCVA | J050413CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |
| J050413CCVA | J050413CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7969 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050413MBKA | J050413MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050413MBKA | J050413MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | | | | |
| J050413MBKA | J050413MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | 50 | 102% | | |
| J050413MBKA | J050413MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | 50 | 102% | | |
| J050413MBKA | J050413MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | 50 | 94% | | |
| J050413MBKA | J050413MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7970 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ICVB | J050313ICVB | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 74-87-3 | Chloromethane | 46 | | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 92% | | |
| J050313ICVB | J050313ICVB | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 84% | | |
| J050313ICVB | J050313ICVB | ORG | 74-83-9 | Bromomethane | 47 | | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 75-00-3 | Chloroethane | 61 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 122% | | |
| J050313ICVB | J050313ICVB | ORG | 75-69-4 | Trichlorofluoromethane | 46 | | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 92% | | |
| J050313ICVB | J050313ICVB | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 67-64-1 | Acetone | 54 | | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 108% | | |
| J050313ICVB | J050313ICVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 104% | | |
| J050313ICVB | J050313ICVB | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 67-66-3 | Chloroform | 49 | | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 78-93-3 | 2-Butanone | 48 | | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 102% | | |
| J050313ICVB | J050313ICVB | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 79-01-6 | Trichloroethene | 47 | | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 102% | | |
| J050313ICVB | J050313ICVB | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 56 | | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 112% | | |
| J050313ICVB | J050313ICVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | ORG | 127-18-4 | Tetrachloroethene | 53 | | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 106% | | |
| J050313ICVB | J050313ICVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 104% | | |
| J050313ICVB | J050313ICVB | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 108% | | |
| J050313ICVB | J050313ICVB | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 88% | | |
| J050313ICVB | J050313ICVB | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | XYLMP | p&m-Xylene | 87 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 100 | 87% | | |
| J050313ICVB | J050313ICVB | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 108% | | |
| J050313ICVB | J050313ICVB | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 92% | | |
| J050313ICVB | J050313ICVB | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313ICVB | J050313ICVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 110% | | |
| J050313ICVB | J050313ICVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 90% | | |
| J050313ICVB | J050313ICVB | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 92% | | |
| J050313ICVB | J050313ICVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 88% | | |
| J050313ICVB | J050313ICVB | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 94% | | |
| J050313ICVB | J050313ICVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |
| J050313ICVB | J050313ICVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 92% | | |
| J050313ICVB | J050313ICVB | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 102% | | |
| J050313ICVB | J050313ICVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 98% | | |
| J050313ICVB | J050313ICVB | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 96% | | |
| J050313ICVB | J050313ICVB | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7965 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313MBKA | J050313MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050313MBKA | J050313MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | | | | |
| J050313MBKA | J050313MBKA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | 50 | 100% | | |
| J050313MBKA | J050313MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | 50 | 104% | | |
| J050313MBKA | J050313MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | 50 | 96% | | |
| J050313MBKA | J050313MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7968 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J042713ALCS | J042713ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 98 | | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 196% | | |
| J042713ALCS | J042713ALCS | ORG | 74-87-3 | Chloromethane | 90 | | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 180% | | |
| J042713ALCS | J042713ALCS | ORG | 75-01-4 | Vinyl chloride | 68 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 136% | | |
| J042713ALCS | J042713ALCS | ORG | 74-83-9 | Bromomethane | 79 | | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 158% | | |
| J042713ALCS | J042713ALCS | ORG | 75-00-3 | Chloroethane | 96 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 192% | | |
| J042713ALCS | J042713ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 60 | | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 120% | | |
| J042713ALCS | J042713ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 96% | | |
| J042713ALCS | J042713ALCS | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 106% | | |
| J042713ALCS | J042713ALCS | ORG | 67-64-1 | Acetone | 61 | | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 122% | | |
| J042713ALCS | J042713ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 1634-04-4 | MTBE | 60 | | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 120% | | |
| J042713ALCS | J042713ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 51 | | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 104% | | |
| J042713ALCS | J042713ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 100% | | |
| J042713ALCS | J042713ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 100% | | |
| J042713ALCS | J042713ALCS | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 71-43-2 | Benzene | 49 | | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 98% | | |
| J042713ALCS | J042713ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 106% | | |
| J042713ALCS | J042713ALCS | ORG | 79-01-6 | Trichloroethene | 48 | | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 96% | | |
| J042713ALCS | J042713ALCS | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 108% | | |
| J042713ALCS | J042713ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 104% | | |
| J042713ALCS | J042713ALCS | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 118% | | |
| J042713ALCS | J042713ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 104% | | |
| J042713ALCS | J042713ALCS | ORG | 127-18-4 | Tetrachloroethene | 54 | | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 108% | | |
| J042713ALCS | J042713ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 106% | | |
| J042713ALCS | J042713ALCS | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 112% | | |
| J042713ALCS | J042713ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 54 | | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 108% | | |
| J042713ALCS | J042713ALCS | ORG | 591-78-6 | 2-Hexanone | 58 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 116% | | |
| J042713ALCS | J042713ALCS | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 90% | | |
| J042713ALCS | J042713ALCS | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 100 | 90% | | |
| J042713ALCS | J042713ALCS | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 75-25-2 | Bromoform | 61 | | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 122% | | |
| J042713ALCS | J042713ALCS | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J042713ALCS | J042713ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 114% | | |
| J042713ALCS | J042713ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 60 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 120% | | |
| J042713ALCS | J042713ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 90% | | |
| J042713ALCS | J042713ALCS | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 96% | | |
| J042713ALCS | J042713ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 88% | | |
| J042713ALCS | J042713ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 92% | | |
| J042713ALCS | J042713ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 96% | | |
| J042713ALCS | J042713ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 92% | | |
| J042713ALCS | J042713ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 98% | | |
| J042713ALCS | J042713ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 100% | | |
| J042713ALCS | J042713ALCS | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 92% | | |
| J042713ALCS | J042713ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 108% | | |
| J042713ALCS | J042713ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 96% | | |
| J042713ALCS | J042713ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 90% | | |
| J042713ALCS | J042713ALCS | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 98% | | |
| J042713ALCS | J042713ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 94% | | |
| J042713ALCS | J042713ALCS | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 106% | | |
| J042713ALCS | J042713ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |
| J042713ALCS | J042713ALCS | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 98% | | |
| J042713ALCS | J042713ALCS | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7966 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J042713ALCD | J042713ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 54 | | ug/L | 5 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 108% | 58% | |
| J042713ALCD | J042713ALCD | ORG | 74-87-3 | Chloromethane | 60 | | ug/L | 5 | 0.43 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 120% | 40% | |
| J042713ALCD | J042713ALCD | ORG | 75-01-4 | Vinyl chloride | 49 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 32% | |
| J042713ALCD | J042713ALCD | ORG | 74-83-9 | Bromomethane | 53 | | ug/L | 5 | 0.50 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 106% | 39% | |
| J042713ALCD | J042713ALCD | ORG | 75-00-3 | Chloroethane | 67 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 134% | 36% | |
| J042713ALCD | J042713ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 29% | |
| J042713ALCD | J042713ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 0% | |
| J042713ALCD | J042713ALCD | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 10% | |
| J042713ALCD | J042713ALCD | ORG | 67-64-1 | Acetone | 49 | | ug/L | 10 | 1.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 22% | |
| J042713ALCD | J042713ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 104% | 14% | |
| J042713ALCD | J042713ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 8% | |
| J042713ALCD | J042713ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 74-97-5 | Bromochloromethane | 46 | | ug/L | 10 | 0.81 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 12% | |
| J042713ALCD | J042713ALCD | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 6% | |
| J042713ALCD | J042713ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 78-93-3 | 2-Butanone | 47 | | ug/L | 1 | 0.17 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 8% | |
| J042713ALCD | J042713ALCD | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 6% | |
| J042713ALCD | J042713ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 14% | |
| J042713ALCD | J042713ALCD | ORG | 79-01-6 | Trichloroethene | 46 | | ug/L | 1 | 0.36 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 14% | |
| J042713ALCD | J042713ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 10% | |
| J042713ALCD | J042713ALCD | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 10% | |
| J042713ALCD | J042713ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 13% | |
| J042713ALCD | J042713ALCD | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 7% | |
| J042713ALCD | J042713ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 51 | | ug/L | 1 | 0.21 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 102% | 15% | |
| J042713ALCD | J042713ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.31 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 12% | |
| J042713ALCD | J042713ALCD | ORG | 127-18-4 | Tetrachloroethene | 53 | | ug/L | 1 | 0.49 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 106% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 45 | | ug/L | 1 | 0.34 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 16% | |
| J042713ALCD | J042713ALCD | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 13% | |
| J042713ALCD | J042713ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 46 | | ug/L | 2 | 0.30 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 16% | |
| J042713ALCD | J042713ALCD | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 104% | 11% | |
| J042713ALCD | J042713ALCD | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 86% | 5% | |
| J042713ALCD | J042713ALCD | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 10% | |
| J042713ALCD | J042713ALCD | ORG | XYLMP | p&m-Xylene | 86 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 100 | 86% | 5% | |
| J042713ALCD | J042713ALCD | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 7% | |
| J042713ALCD | J042713ALCD | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 7% | |
| J042713ALCD | J042713ALCD | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 102% | 18% | |
| J042713ALCD | J042713ALCD | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 7% | |
| J042713ALCD | J042713ALCD | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J042713ALCD | J042713ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 19% | |
| J042713ALCD | J042713ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 102% | 16% | |
| J042713ALCD | J042713ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 86% | 11% | |
| J042713ALCD | J042713ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 86% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 4% | |
| J042713ALCD | J042713ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 0% | |
| J042713ALCD | J042713ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 47 | | ug/L | 2 | 0.26 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 6% | |
| J042713ALCD | J042713ALCD | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 94% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 92% | 16% | |
| J042713ALCD | J042713ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 0% | |
| J042713ALCD | J042713ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 2% | |
| J042713ALCD | J042713ALCD | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 90% | 9% | |
| J042713ALCD | J042713ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 44 | | ug/L | 5 | 0.23 | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 88% | 7% | |
| J042713ALCD | J042713ALCD | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 8% | |
| J042713ALCD | J042713ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 96% | 6% | |
| J042713ALCD | J042713ALCD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 98% | 0% | |
| J042713ALCD | J042713ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/4/2013 | 5/4/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7967 | 50 | 100% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155MS | Ops Batch 90 | ORG | 75-71-8 | Dichlorodifluoromethane | 3800 | | ug/L | 500 | 29.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 76% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 74-87-3 | Chloromethane | 3900 | | ug/L | 500 | 43.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 78% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 74% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 74-83-9 | Bromomethane | 4400 | | ug/L | 500 | 50.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 88% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-00-3 | Chloroethane | 4600 | | ug/L | 500 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-69-4 | Trichlorofluoromethane | 3800 | | ug/L | 500 | 19.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 76% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-35-4 | 1,1-Dichloroethene | 4000 | | ug/L | 100 | 47.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 80% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-09-2 | Methylene chloride | 3900 | | ug/L | 500 | 26.46 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 78% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 67-64-1 | Acetone | 57000 | | ug/L | 1000 | 155.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | -200% | | 67000 |
| NAL13026-155MS | Ops Batch 90 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5800 | | ug/L | 100 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 116% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 1634-04-4 | MTBE | 5700 | | ug/L | 500 | 61.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 114% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 110% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4800 | | ug/L | 100 | 32.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 96% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 74-97-5 | Bromochloromethane | 4700 | | ug/L | 1000 | 81.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 67-66-3 | Chloroform | 4600 | | ug/L | 200 | 41.37 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4700 | | ug/L | 100 | 15.73 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 78-93-3 | 2-Butanone | 34000 | | ug/L | 100 | 16.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | -100% | | 39000 |
| NAL13026-155MS | Ops Batch 90 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 96% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 71-43-2 | Benzene | 4600 | | ug/L | 100 | 13.53 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 91% | | 41 |
| NAL13026-155MS | Ops Batch 90 | ORG | 107-06-2 | 1,2-Dichloroethane | 4600 | | ug/L | 100 | 20.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 79-01-6 | Trichloroethene | 4500 | | ug/L | 100 | 36.33 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 89% | | 73 |
| NAL13026-155MS | Ops Batch 90 | ORG | 74-95-3 | Dibromomethane | 4600 | | ug/L | 200 | 32.20 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 78-87-5 | 1,2-Dichloropropane | 4700 | | ug/L | 100 | 18.17 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-27-4 | Bromodichloromethane | 4300 | | ug/L | 200 | 11.58 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 86% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4500 | | ug/L | 100 | 25.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 90% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 108-88-3 | Toluene | 4300 | | ug/L | 500 | 74.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 85% | | 60 |
| NAL13026-155MS | Ops Batch 90 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6400 | | ug/L | 100 | 20.96 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 115% | | 650 |
| NAL13026-155MS | Ops Batch 90 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4500 | | ug/L | 100 | 31.15 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 90% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 127-18-4 | Tetrachloroethene | 4200 | | ug/L | 100 | 48.56 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 82% | | 110 |
| NAL13026-155MS | Ops Batch 90 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4400 | | ug/L | 100 | 34.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 88% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 124-48-1 | Dibromochloromethane | 4600 | | ug/L | 500 | 68.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 106-93-4 | 1,2-Dibromoethane | 4400 | | ug/L | 200 | 29.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 88% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 591-78-6 | 2-Hexanone | 5800 | | ug/L | 200 | 26.49 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 104% | | 600 |
| NAL13026-155MS | Ops Batch 90 | ORG | 100-41-4 | Ethylbenzene | 3800 | | ug/L | 100 | 25.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 75% | | 62 |
| NAL13026-155MS | Ops Batch 90 | ORG | 108-90-7 | Chlorobenzene | 3900 | | ug/L | 100 | 27.52 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 77% | | 64 |
| NAL13026-155MS | Ops Batch 90 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4000 | | ug/L | 200 | 19.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 80% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | XYLMP | p&m-Xylene | 7600 | | ug/L | 200 | 26.14 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 10000 | 75% | | 138 |
| NAL13026-155MS | Ops Batch 90 | ORG | 95-47-6 | o-Xylene | 3900 | | ug/L | 100 | 12.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 77% | | 57 |
| NAL13026-155MS | Ops Batch 90 | ORG | 100-42-5 | Styrene | 3900 | | ug/L | 100 | 20.23 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 78% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 75-25-2 | Bromoform | 4600 | | ug/L | 200 | 46.83 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 98-82-8 | Isopropylbenzene | 3900 | | ug/L | 200 | 20.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 77% | | 59 |
| NAL13026-155MS | Ops Batch 90 | ORG | 103-65-1 | n-Propylbenzene | 3900 | | ug/L | 200 | 27.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 76% | | 76 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155MS | Ops Batch 90 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4700 | | ug/L | 200 | 29.16 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4800 | | ug/L | 200 | 29.47 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 96% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 3900 | | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 76% | | 82 |
| NAL13026-155MS | Ops Batch 90 | ORG | 98-06-6 | tert-Butylbenzene | 3900 | | ug/L | 200 | 32.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 78% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 3900 | | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 75% | | 170 |
| NAL13026-155MS | Ops Batch 90 | ORG | 135-98-8 | sec-Butylbenzene | 4100 | | ug/L | 200 | 32.34 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 80% | | 78 |
| NAL13026-155MS | Ops Batch 90 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4300 | | ug/L | 200 | 22.21 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 86% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 99-87-6 | p-Isopropltoluene | 4500 | | ug/L | 200 | 25.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 81% | | 450 |
| NAL13026-155MS | Ops Batch 90 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 90% | | 210 |
| NAL13026-155MS | Ops Batch 90 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 92% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 104-51-8 | n-Butylbenzene | 4400 | | ug/L | 500 | 27.81 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 88% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4900 | | ug/L | 500 | 159.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 98% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 87-68-3 | Hexachlorobutadiene | 4800 | | ug/L | 500 | 65.42 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 96% | | |
| NAL13026-155MS | Ops Batch 90 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4400 | | ug/L | 500 | 27.63 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 84% | | 190 |
| NAL13026-155MS | Ops Batch 90 | ORG | 91-20-3 | Naphthalene | 4400 | | ug/L | 500 | 56.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 75% | | 670 |
| NAL13026-155MS | Ops Batch 90 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4200 | | ug/L | 500 | 23.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 5000 | 79% | | 250 |
| NAL13026-155MS | Ops Batch 90 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 50 | 102% | | |
| NAL13026-155MS | Ops Batch 90 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 50 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 50 | 94% | | |
| NAL13026-155MS | Ops Batch 90 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7975 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-71-8 | Dichlorodifluoromethane | 4400 | | ug/L | 500 | 29.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 88% | 15% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 74-87-3 | Chloromethane | 3900 | | ug/L | 500 | 43.07 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 78% | 0% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 74% | 0% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 74-83-9 | Bromomethane | 5000 | | ug/L | 500 | 50.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 100% | 13% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 104% | 12% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-69-4 | Trichlorofluoromethane | 4000 | | ug/L | 500 | 19.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 80% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 84% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-09-2 | Methylene chloride | 4200 | | ug/L | 500 | 26.46 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 84% | 7% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 67-64-1 | Acetone | 58000 | | ug/L | 1000 | 155.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | -180% | 2% | 67000 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5700 | | ug/L | 100 | 55.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 114% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 1634-04-4 | MTBE | 5600 | | ug/L | 500 | 61.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 112% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-34-3 | 1,1-Dichloroethane | 5800 | | ug/L | 100 | 52.66 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 116% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 100% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 74-97-5 | Bromochloromethane | 4900 | | ug/L | 1000 | 81.18 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 67-66-3 | Chloroform | 4700 | | ug/L | 200 | 41.37 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4900 | | ug/L | 100 | 15.73 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 78-93-3 | 2-Butanone | 34000 | | ug/L | 100 | 16.65 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | -100% | 0% | 39000 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 56-23-5 | Carbon tetrachloride | 4900 | | ug/L | 100 | 27.64 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 93% | 2% | 41 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 107-06-2 | 1,2-Dichloroethane | 4800 | | ug/L | 100 | 20.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 96% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 79-01-6 | Trichloroethene | 4700 | | ug/L | 100 | 36.33 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 93% | 4% | 73 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 74-95-3 | Dibromomethane | 4800 | | ug/L | 200 | 32.20 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 96% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-27-4 | Bromodichloromethane | 4500 | | ug/L | 200 | 11.58 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 90% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 108-88-3 | Toluene | 4400 | | ug/L | 500 | 74.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 87% | 2% | 60 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6100 | | ug/L | 100 | 20.96 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 109% | 5% | 650 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 84% | 2% | 110 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4700 | | ug/L | 100 | 34.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 7% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 6% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 106-93-4 | 1,2-Dibromoethane | 4600 | | ug/L | 200 | 29.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 92% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 591-78-6 | 2-Hexanone | 5100 | | ug/L | 200 | 26.49 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 90% | 13% | 600 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 100-41-4 | Ethylbenzene | 4000 | | ug/L | 100 | 25.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 79% | 5% | 62 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 108-90-7 | Chlorobenzene | 4000 | | ug/L | 100 | 27.52 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 79% | 3% | 64 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4100 | | ug/L | 200 | 19.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 82% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | XYLMP | p&m-Xylene | 7900 | | ug/L | 200 | 26.14 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 10000 | 78% | 4% | 138 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 95-47-6 | o-Xylene | 4000 | | ug/L | 100 | 12.90 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 79% | 3% | 57 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 100-42-5 | Styrene | 4100 | | ug/L | 100 | 20.23 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 82% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 75-25-2 | Bromoform | 4900 | | ug/L | 200 | 46.83 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 6% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 98-82-8 | Isopropylbenzene | 4100 | | ug/L | 200 | 20.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 81% | 5% | 59 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 103-65-1 | n-Propylbenzene | 4100 | | ug/L | 200 | 27.00 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 80% | 5% | 76 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-155MSD | Ops Batch 90 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4900 | | ug/L | 200 | 29.16 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 98% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5000 | | ug/L | 200 | 29.47 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 100% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4100 | | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 80% | 5% | 82 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 98-06-6 | tert-Butylbenzene | 4100 | | ug/L | 200 | 32.61 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 82% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4100 | | ug/L | 200 | 20.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 79% | 5% | 170 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 135-98-8 | sec-Butylbenzene | 4300 | | ug/L | 200 | 32.34 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 84% | 5% | 78 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 90% | 5% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 85% | 4% | 450 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 4% | 210 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4800 | | ug/L | 200 | 26.38 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 96% | 4% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 7% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5200 | | ug/L | 500 | 159.11 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 104% | 6% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 87-68-3 | Hexachlorobutadiene | 5400 | | ug/L | 500 | 65.42 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 108% | 12% | 0 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 94% | 11% | 190 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 85% | 11% | 670 |
| NAL13026-155MSD | Ops Batch 90 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 5000 | 91% | 13% | 250 |
| NAL13026-155MSD | Ops Batch 90 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 50 | 100% | 2% | 0 |
| NAL13026-155MSD | Ops Batch 90 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 50 | 94% | 0% | 0 |
| NAL13026-155MSD | Ops Batch 90 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 50 | 94% | 0% | 0 |
| NAL13026-155MSD | Ops Batch 90 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/4/2013 | 5/4/2013 | 5/4/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7976 | 50 | 94% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 67-64-1 | Acetone | 69000 | D | ug/L | 10000 | 1556 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7981 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 78-93-3 | 2-Butanone | 38000 | D | ug/L | 10000 | 811.80 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7981 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 108-88-3 | Toluene | 26 | J | ug/L | 100 | 20.96 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 330 | JX+ | ug/L | 500 | 74.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 591-78-6 | 2-Hexanone | 170 | JX+ | ug/L | 500 | 68.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 100-41-4 | Ethylbenzene | 36 | J | ug/L | 100 | 25.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | XYLMP | p&m-Xylene | 91 | J | ug/L | 200 | 26.14 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 95-47-6 | o-Xylene | 37 | J | ug/L | 100 | 12.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 100-42-5 | Styrene | 58 | J | ug/L | 100 | 20.23 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 98-82-8 | Isopropylbenzene | 45 | J | ug/L | 200 | 20.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 103-65-1 | n-Propylbenzene | 56 | J | ug/L | 200 | 27.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157 | Ops Batch 92-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 69 | J | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 135-98-8 | sec-Butylbenzene | 59 | J | ug/L | 200 | 32.34 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 99-87-6 | p-Isopropltoluene | 240 | | ug/L | 200 | 25.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 110 | J | ug/L | 200 | 33.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 104-51-8 | n-Butylbenzene | 86 | J | ug/L | 500 | 27.81 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 91-20-3 | Naphthalene | 330 | J | ug/L | 500 | 56.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | | | | |
| NAL13026-157 | Ops Batch 92-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | 50 | 102% | | |
| NAL13026-157 | Ops Batch 92-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | 50 | 100% | | |
| NAL13026-157 | Ops Batch 92-MSD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | 50 | 92% | | |
| NAL13026-157 | Ops Batch 92-MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7980 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-158 | Ops Batch 93 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 67-64-1 | Acetone | 53000 | D | ug/L | 10000 | 1556.07 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7989 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 78-93-3 | 2-Butanone | 31000 | D | ug/L | 1000 | 16.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7989 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 71-43-2 | Benzene | 17 | J | ug/L | 100 | 13.53 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 108-88-3 | Toluene | 25 | J | ug/L | 100 | 74.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 170 | JX+ | ug/L | 500 | 20.96 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 591-78-6 | 2-Hexanone | | UX+ | ug/L | 500 | 26.49 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 100-41-4 | Ethylbenzene | 31 | J | ug/L | 100 | 25.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | XYLMP | p&m-Xylene | 77 | J | ug/L | 200 | 26.14 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 95-47-6 | o-Xylene | 29 | J | ug/L | 100 | 12.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 98-82-8 | Isopropylbenzene | 33 | J | ug/L | 200 | 20.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 103-65-1 | n-Propylbenzene | 47 | J | ug/L | 200 | 27.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-158 | Ops Batch 93 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 52 | J | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 93 | J | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 135-98-8 | sec-Butylbenzene | 49 | J | ug/L | 200 | 32.34 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 99-87-6 | p-Isopropltoluene | 150 | J | ug/L | 200 | 25.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 72 | J | ug/L | 200 | 33.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 104-51-8 | n-Butylbenzene | 87 | J | ug/L | 500 | 27.81 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 91-20-3 | Naphthalene | 330 | J | ug/L | 500 | 56.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | | | | |
| NAL13026-158 | Ops Batch 93 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | 50 | 104% | | |
| NAL13026-158 | Ops Batch 93 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | 50 | 102% | | |
| NAL13026-158 | Ops Batch 93 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | 50 | 90% | | |
| NAL13026-158 | Ops Batch 93 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7988 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513CCVA | J050513CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 42 | | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |
| J050513CCVA | J050513CCVA | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 75-01-4 | Vinyl chloride | 36 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 72% | | |
| J050513CCVA | J050513CCVA | ORG | 74-83-9 | Bromomethane | 44 | | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 38 | | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 76% | | |
| J050513CCVA | J050513CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 86% | | |
| J050513CCVA | J050513CCVA | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 86% | | |
| J050513CCVA | J050513CCVA | ORG | 67-64-1 | Acetone | 44 | | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 64 | | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 128% | | |
| J050513CCVA | J050513CCVA | ORG | 1634-04-4 | MTBE | 57 | | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 114% | | |
| J050513CCVA | J050513CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 62 | | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 124% | | |
| J050513CCVA | J050513CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 106% | | |
| J050513CCVA | J050513CCVA | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 102% | | |
| J050513CCVA | J050513CCVA | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 78-93-3 | 2-Butanone | 62 | | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 124% | | |
| J050513CCVA | J050513CCVA | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 104% | | |
| J050513CCVA | J050513CCVA | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 102% | | |
| J050513CCVA | J050513CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 48 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 96% | | |
| J050513CCVA | J050513CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 98% | | |
| J050513CCVA | J050513CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 104% | | |
| J050513CCVA | J050513CCVA | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 98% | | |
| J050513CCVA | J050513CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 102% | | |
| J050513CCVA | J050513CCVA | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 69 | | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 138% | | |
| J050513CCVA | J050513CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 96% | | |
| J050513CCVA | J050513CCVA | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 591-78-6 | 2-Hexanone | 69 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 138% | | |
| J050513CCVA | J050513CCVA | ORG | 100-41-4 | Ethylbenzene | 51 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 102% | | |
| J050513CCVA | J050513CCVA | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 82% | | |
| J050513CCVA | J050513CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |
| J050513CCVA | J050513CCVA | ORG | XYLMP | p&m-Xylene | 80 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 100 | 80% | | |
| J050513CCVA | J050513CCVA | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 82% | | |
| J050513CCVA | J050513CCVA | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |
| J050513CCVA | J050513CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 96% | | |
| J050513CCVA | J050513CCVA | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |
| J050513CCVA | J050513CCVA | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513CCVA | J050513CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 98% | | |
| J050513CCVA | J050513CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 82% | | |
| J050513CCVA | J050513CCVA | ORG | 98-06-6 | tert-Butylbenzene | 42 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 84% | | |
| J050513CCVA | J050513CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 82% | | |
| J050513CCVA | J050513CCVA | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 99-87-6 | p-Isopropltoluene | 44 | | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 96% | | |
| J050513CCVA | J050513CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 98% | | |
| J050513CCVA | J050513CCVA | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 90% | | |
| J050513CCVA | J050513CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 108% | | |
| J050513CCVA | J050513CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 92% | | |
| J050513CCVA | J050513CCVA | ORG | 91-20-3 | Naphthalene | 40 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 80% | | |
| J050513CCVA | J050513CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 44 | | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 88% | | |
| J050513CCVA | J050513CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 100% | | |
| J050513CCVA | J050513CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 43 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 86% | | |
| J050513CCVA | J050513CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |
| J050513CCVA | J050513CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7978 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513MBKA | J050513MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513MBKA | J050513MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | | | | |
| J050513MBKA | J050513MBKA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | 50 | 106% | | |
| J050513MBKA | J050513MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | 50 | 102% | | |
| J050513MBKA | J050513MBKA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | 50 | 92% | | |
| J050513MBKA | J050513MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7979 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513ALCS | J050513ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 32 | | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 64% | | |
| J050513ALCS | J050513ALCS | ORG | 74-87-3 | Chloromethane | 35 | | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 70% | | |
| J050513ALCS | J050513ALCS | ORG | 75-01-4 | Vinyl chloride | 33 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 66% | | |
| J050513ALCS | J050513ALCS | ORG | 74-83-9 | Bromomethane | 48 | | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 96% | | |
| J050513ALCS | J050513ALCS | ORG | 75-00-3 | Chloroethane | 46 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 38 | | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 76% | | |
| J050513ALCS | J050513ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 44 | | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 88% | | |
| J050513ALCS | J050513ALCS | ORG | 75-09-2 | Methylene chloride | 42 | | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 84% | | |
| J050513ALCS | J050513ALCS | ORG | 67-64-1 | Acetone | 44 | | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 88% | | |
| J050513ALCS | J050513ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 62 | | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 124% | | |
| J050513ALCS | J050513ALCS | ORG | 1634-04-4 | MTBE | 60 | | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 120% | | |
| J050513ALCS | J050513ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 60 | | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 120% | | |
| J050513ALCS | J050513ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 104% | | |
| J050513ALCS | J050513ALCS | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 102% | | |
| J050513ALCS | J050513ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 100% | | |
| J050513ALCS | J050513ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 102% | | |
| J050513ALCS | J050513ALCS | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 118% | | |
| J050513ALCS | J050513ALCS | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 104% | | |
| J050513ALCS | J050513ALCS | ORG | 71-43-2 | Benzene | 49 | | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 98% | | |
| J050513ALCS | J050513ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 100% | | |
| J050513ALCS | J050513ALCS | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 98% | | |
| J050513ALCS | J050513ALCS | ORG | 74-95-3 | Dibromomethane | 50 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 100% | | |
| J050513ALCS | J050513ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 51 | | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 102% | | |
| J050513ALCS | J050513ALCS | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 94% | | |
| J050513ALCS | J050513ALCS | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 90% | | |
| J050513ALCS | J050513ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 130% | | |
| J050513ALCS | J050513ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 96% | | |
| J050513ALCS | J050513ALCS | ORG | 127-18-4 | Tetrachloroethene | 43 | | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 86% | | |
| J050513ALCS | J050513ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 98% | | |
| J050513ALCS | J050513ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 94% | | |
| J050513ALCS | J050513ALCS | ORG | 591-78-6 | 2-Hexanone | 64 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 128% | | |
| J050513ALCS | J050513ALCS | ORG | 100-41-4 | Ethylbenzene | 39 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 78% | | |
| J050513ALCS | J050513ALCS | ORG | 108-90-7 | Chlorobenzene | 39 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 78% | | |
| J050513ALCS | J050513ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 40 | | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | XYLMP | p&m-Xylene | 77 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 100 | 77% | | |
| J050513ALCS | J050513ALCS | ORG | 95-47-6 | o-Xylene | 40 | | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 100-42-5 | Styrene | 40 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 94% | | |
| J050513ALCS | J050513ALCS | ORG | 98-82-8 | Isopropylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 103-65-1 | n-Propylbenzene | 40 | | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513ALCS | J050513ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 96% | | |
| J050513ALCS | J050513ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 102% | | |
| J050513ALCS | J050513ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 98-06-6 | tert-Butylbenzene | 40 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 80% | | |
| J050513ALCS | J050513ALCS | ORG | 135-98-8 | sec-Butylbenzene | 42 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 84% | | |
| J050513ALCS | J050513ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 44 | | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 88% | | |
| J050513ALCS | J050513ALCS | ORG | 99-87-6 | p-Isopropltoluene | 42 | | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 84% | | |
| J050513ALCS | J050513ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 47 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 94% | | |
| J050513ALCS | J050513ALCS | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 90% | | |
| J050513ALCS | J050513ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 102% | | |
| J050513ALCS | J050513ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 90% | | |
| J050513ALCS | J050513ALCS | ORG | 91-20-3 | Naphthalene | 41 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 82% | | |
| J050513ALCS | J050513ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 43 | | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 86% | | |
| J050513ALCS | J050513ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 104% | | |
| J050513ALCS | J050513ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 94% | | |
| J050513ALCS | J050513ALCS | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |
| J050513ALCS | J050513ALCS | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7982 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513ALCD | J050513ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 37 | | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 74% | 14% | |
| J050513ALCD | J050513ALCD | ORG | 74-87-3 | Chloromethane | 39 | | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 78% | 11% | |
| J050513ALCD | J050513ALCD | ORG | 75-01-4 | Vinyl chloride | 37 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 74% | 11% | |
| J050513ALCD | J050513ALCD | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 100% | 4% | |
| J050513ALCD | J050513ALCD | ORG | 75-00-3 | Chloroethane | 49 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 98% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 43 | | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 12% | |
| J050513ALCD | J050513ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 47 | | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 94% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 94% | 11% | |
| J050513ALCD | J050513ALCD | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 100% | 13% | |
| J050513ALCD | J050513ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 122% | 2% | |
| J050513ALCD | J050513ALCD | ORG | 1634-04-4 | MTBE | 59 | | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 118% | 2% | |
| J050513ALCD | J050513ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 65 | | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 130% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 112% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 112% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 108% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 110% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 78-93-3 | 2-Butanone | 63 | | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 126% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 110% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 71-43-2 | Benzene | 53 | | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 106% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 55 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 110% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 106% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 110% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 108% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 98% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 100% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 96% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 67 | | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 134% | 3% | |
| J050513ALCD | J050513ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 102% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 94% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 98% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 106% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 100% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 591-78-6 | 2-Hexanone | 70 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 140% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 84% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 84% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 7% | |
| J050513ALCD | J050513ALCD | ORG | XYLMP | p&m-Xylene | 83 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 100 | 83% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 84% | 5% | |
| J050513ALCD | J050513ALCD | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 104% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 88% | 10% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050513ALCD | J050513ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 106% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 108% | 6% | |
| J050513ALCD | J050513ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 88% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 86% | 7% | |
| J050513ALCD | J050513ALCD | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 92% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 96% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 92% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 102% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 102% | 8% | |
| J050513ALCD | J050513ALCD | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 98% | 9% | |
| J050513ALCD | J050513ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 102% | 10% | |
| J050513ALCD | J050513ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 58 | | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 116% | 13% | |
| J050513ALCD | J050513ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 100% | 11% | |
| J050513ALCD | J050513ALCD | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 92% | 11% | |
| J050513ALCD | J050513ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 96% | 11% | |
| J050513ALCD | J050513ALCD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 104% | 0% | |
| J050513ALCD | J050513ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 98% | 4% | |
| J050513ALCD | J050513ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 92% | 0% | |
| J050513ALCD | J050513ALCD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7983 | 50 | 92% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3400 | | ug/L | 500 | 29.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 68% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 74-87-3 | Chloromethane | 4100 | | ug/L | 500 | 43.07 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 82% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-01-4 | Vinyl chloride | 3300 | | ug/L | 200 | 31.86 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 66% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 74-83-9 | Bromomethane | 3700 | | ug/L | 500 | 50.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 74% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-00-3 | Chloroethane | 5000 | | ug/L | 500 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 4000 | | ug/L | 500 | 19.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 80% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 84% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-09-2 | Methylene chloride | 4200 | | ug/L | 500 | 26.46 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 84% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 67-64-1 | Acetone | 64000 | | ug/L | 1000 | 155.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | -100% | | 69000 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 6000 | | ug/L | 100 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 120% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 1634-04-4 | MTBE | 6000 | | ug/L | 500 | 61.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 120% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 5700 | | ug/L | 100 | 52.66 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 114% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 102% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 102% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 67-66-3 | Chloroform | 4900 | | ug/L | 200 | 41.37 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 98% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4900 | | ug/L | 100 | 15.73 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 98% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 78-93-3 | 2-Butanone | 38000 | | ug/L | 100 | 16.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 0% | | 38000 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 71-43-2 | Benzene | 4800 | | ug/L | 100 | 13.53 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 96% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 79-01-6 | Trichloroethene | 4800 | | ug/L | 100 | 36.33 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 96% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 74-95-3 | Dibromomethane | 5000 | | ug/L | 200 | 32.20 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 98% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-27-4 | Bromodichloromethane | 4500 | | ug/L | 200 | 11.58 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 90% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4500 | | ug/L | 100 | 25.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 90% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 108-88-3 | Toluene | 4300 | | ug/L | 500 | 74.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 85% | | 26 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6500 | | ug/L | 100 | 20.96 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 123% | | 330 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4600 | | ug/L | 100 | 31.15 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 92% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 86% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4600 | | ug/L | 100 | 34.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 92% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 96% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 4600 | | ug/L | 200 | 29.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 92% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 591-78-6 | 2-Hexanone | 6100 | | ug/L | 200 | 26.49 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 119% | | 170 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 100-41-4 | Ethylbenzene | 3800 | | ug/L | 100 | 25.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 75% | | 36 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 108-90-7 | Chlorobenzene | 3800 | | ug/L | 100 | 27.52 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 76% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 3900 | | ug/L | 200 | 19.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 78% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | XYLMP | p&m-Xylene | 7500 | | ug/L | 200 | 26.14 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 10000 | 74% | | 91 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 95-47-6 | o-Xylene | 3900 | | ug/L | 100 | 12.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 77% | | 37 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 100-42-5 | Styrene | 3900 | | ug/L | 100 | 20.23 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 77% | | 58 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 75-25-2 | Bromoform | 4600 | | ug/L | 200 | 46.83 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 92% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 98-82-8 | Isopropylbenzene | 3800 | | ug/L | 200 | 20.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 75% | | 45 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 103-65-1 | n-Propylbenzene | 4000 | | ug/L | 200 | 27.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 79% | | 56 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4800 | | ug/L | 200 | 29.16 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 96% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5000 | | ug/L | 200 | 29.47 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 3900 | | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 77% | | 69 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 98-06-6 | tert-Butylbenzene | 3900 | | ug/L | 200 | 32.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 78% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 3900 | | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 76% | | 120 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4100 | | ug/L | 200 | 32.34 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 81% | | 59 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4300 | | ug/L | 200 | 22.21 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 86% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 99-87-6 | p-Isopropltoluene | 4400 | | ug/L | 200 | 25.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 83% | | 240 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4500 | | ug/L | 200 | 33.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 88% | | 110 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 92% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 104-51-8 | n-Butylbenzene | 4500 | | ug/L | 500 | 27.81 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 88% | | 86 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 100% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4500 | | ug/L | 500 | 27.63 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 90% | | |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 91-20-3 | Naphthalene | 4600 | | ug/L | 500 | 56.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 85% | | 330 |
| NAL13026-157MS | Ops Batch 92-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4500 | | ug/L | 500 | 23.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 5000 | 90% | | |
| NAL13026-157MS | Ops Batch 92-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 50 | 104% | | |
| NAL13026-157MS | Ops Batch 92-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 50 | 94% | | |
| NAL13026-157MS | Ops Batch 92-MSD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 50 | 90% | | |
| NAL13026-157MS | Ops Batch 92-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7985 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3800 | | ug/L | 500 | 29.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 76% | 11% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 74-87-3 | Chloromethane | 4000 | | ug/L | 500 | 43.07 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 80% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 76% | 14% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 74-83-9 | Bromomethane | 4300 | | ug/L | 500 | 50.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 86% | 15% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-00-3 | Chloroethane | 5100 | | ug/L | 500 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 102% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 4300 | | ug/L | 500 | 19.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 86% | 7% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 4400 | | ug/L | 100 | 47.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 88% | 5% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-09-2 | Methylene chloride | 4400 | | ug/L | 500 | 26.46 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 88% | 5% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 67-64-1 | Acetone | 64000 | | ug/L | 1000 | 155.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | -100% | 0% | 69000 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5200 | | ug/L | 100 | 55.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 14% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 106% | 12% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 5900 | | ug/L | 100 | 52.66 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 118% | 3% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5200 | | ug/L | 100 | 32.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 74-97-5 | Bromochloromethane | 5200 | | ug/L | 1000 | 81.18 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 67-66-3 | Chloroform | 5000 | | ug/L | 200 | 41.37 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 100% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5300 | | ug/L | 100 | 15.73 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 106% | 8% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 78-93-3 | 2-Butanone | 37000 | | ug/L | 100 | 16.65 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | -20% | 3% | 38000 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 56-23-5 | Carbon tetrachloride | 5200 | | ug/L | 100 | 27.64 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 71-43-2 | Benzene | 5000 | | ug/L | 100 | 13.53 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 100% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5200 | | ug/L | 100 | 20.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 79-01-6 | Trichloroethene | 5000 | | ug/L | 100 | 36.33 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 100% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 74-95-3 | Dibromomethane | 5200 | | ug/L | 200 | 32.20 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 104% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 5100 | | ug/L | 100 | 18.17 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 102% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-27-4 | Bromodichloromethane | 4700 | | ug/L | 200 | 11.58 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 94% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 96% | 6% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 91% | 7% | 26 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6600 | | ug/L | 100 | 20.96 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 125% | 2% | 330 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 100% | 8% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 92% | 7% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 98% | 6% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 102% | 6% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 4900 | | ug/L | 200 | 29.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 98% | 6% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 591-78-6 | 2-Hexanone | 6400 | | ug/L | 200 | 26.49 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 125% | 5% | 170 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 100-41-4 | Ethylbenzene | 4000 | | ug/L | 100 | 25.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 79% | 5% | 36 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 108-90-7 | Chlorobenzene | 4000 | | ug/L | 100 | 27.52 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 80% | 5% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4200 | | ug/L | 200 | 19.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 84% | 7% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | XYLMP | p&m-Xylene | 8000 | | ug/L | 200 | 26.14 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 10000 | 79% | 6% | 91 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 95-47-6 | o-Xylene | 4100 | | ug/L | 100 | 12.90 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 81% | 5% | 37 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 100-42-5 | Styrene | 4200 | | ug/L | 100 | 20.23 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 83% | 7% | 58 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 100% | 8% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 98-82-8 | Isopropylbenzene | 4200 | | ug/L | 200 | 20.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 83% | 10% | 45 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 103-65-1 | n-Propylbenzene | 4200 | | ug/L | 200 | 27.00 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 83% | 5% | 56 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 102% | 6% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5400 | | ug/L | 200 | 29.47 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 108% | 8% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4200 | | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 83% | 7% | 69 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 98-06-6 | tert-Butylbenzene | 4100 | | ug/L | 200 | 32.61 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 82% | 5% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4100 | | ug/L | 200 | 20.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 80% | 5% | 120 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4300 | | ug/L | 200 | 32.34 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 85% | 5% | 59 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 90% | 5% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 99-87-6 | p-Isopropltoluene | 4500 | | ug/L | 200 | 25.48 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 85% | 2% | 240 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 96% | 9% | 110 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4800 | | ug/L | 200 | 26.38 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 96% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 104-51-8 | n-Butylbenzene | 4600 | | ug/L | 500 | 27.81 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 90% | 2% | 86 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5600 | | ug/L | 500 | 159.11 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 112% | 11% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 4900 | | ug/L | 500 | 65.42 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 98% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4600 | | ug/L | 500 | 27.63 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 92% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 91% | 6% | 330 |
| NAL13026-157MSD | Ops Batch 92-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4600 | | ug/L | 500 | 23.28 | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 5000 | 92% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 50 | 104% | 0% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 50 | 98% | 4% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 50 | 92% | 2% | 0 |
| NAL13026-157MSD | Ops Batch 92-MSD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/5/2013 | 5/5/2013 | 5/5/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7986 | 50 | 92% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX+ | ug/L | 500 | 29.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 74-87-3 | Chloromethane | | UX+ | ug/L | 500 | 43.07 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-01-4 | Vinyl chloride | | UX+ | ug/L | 200 | 31.86 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | UX+ | ug/L | 500 | 19.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | UX+ | ug/L | 100 | 47.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 67-64-1 | Acetone | 100000 | DX+ | ug/L | 10000 | 1556 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7994 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 78-93-3 | 2-Butanone | 39000 | DX+ | ug/L | 10000 | 811.80 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ7994 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 71-43-2 | Benzene | 16 | J | ug/L | 100 | 13.53 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | UX+ | ug/L | 100 | 18.17 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 108-88-3 | Toluene | 20 | J | ug/L | 100 | 20.96 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | | UX+ | ug/L | 500 | 74.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 591-78-6 | 2-Hexanone | 250 | JX+ | ug/L | 500 | 68.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | XYLMP | p&m-Xylene | 65 | J | ug/L | 200 | 26.14 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 95-47-6 | o-Xylene | 26 | J | ug/L | 100 | 12.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 103-65-1 | n-Propylbenzene | 28 | J | ug/L | 200 | 27.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159 | Ops Batch 94-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 99-87-6 | p-Isopropltoluene | 41 | J | ug/L | 200 | 25.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 104-51-8 | n-Butylbenzene | 44 | J | ug/L | 500 | 27.81 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 91-20-3 | Naphthalene | 190 | J | ug/L | 500 | 56.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | | | | |
| NAL13026-159 | Ops Batch 94-MSD | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | 50 | 110% | | |
| NAL13026-159 | Ops Batch 94-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | 50 | 102% | | |
| NAL13026-159 | Ops Batch 94-MSD | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | 50 | 88% | | |
| NAL13026-159 | Ops Batch 94-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7993 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-160 | Ops Batch 95 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX+ | ug/L | 500 | 29.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 74-87-3 | Chloromethane | | UX+ | ug/L | 500 | 43.07 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-01-4 | Vinyl chloride | | UX+ | ug/L | 200 | 31.86 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-69-4 | Trichlorofluoromethane | | UX+ | ug/L | 500 | 19.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX+ | ug/L | 100 | 47.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 67-64-1 | Acetone | 92000 | DX+ | ug/L | 10000 | 1556 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8002 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 78-93-3 | 2-Butanone | 38000 | DX+ | ug/L | 10000 | 166.52 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8002 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 71-43-2 | Benzene | 19 | J | ug/L | 100 | 13.53 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 78-87-5 | 1,2-Dichloropropane | | UX+ | ug/L | 100 | 18.17 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 108-10-1 | 4-Methyl-2-pentanone | | UX+ | ug/L | 500 | 20.96 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 591-78-6 | 2-Hexanone | 320 | JX+ | ug/L | 500 | 26.49 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 100-41-4 | Ethylbenzene | 30 | J | ug/L | 100 | 25.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 103-65-1 | n-Propylbenzene | 41 | J | ug/L | 200 | 27.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-160 | Ops Batch 95 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 99-87-6 | p-Isopropltoluene | 230 | | ug/L | 200 | 25.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 104-51-8 | n-Butylbenzene | 78 | J | ug/L | 500 | 27.81 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 91-20-3 | Naphthalene | 400 | J | ug/L | 500 | 56.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | | | | |
| NAL13026-160 | Ops Batch 95 | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | 50 | 114% | | |
| NAL13026-160 | Ops Batch 95 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 56 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | 50 | 112% | | |
| NAL13026-160 | Ops Batch 95 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | 50 | 88% | | |
| NAL13026-160 | Ops Batch 95 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8001 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613CCVA | J050613CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 111 | | ug/L | 5 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 222% | | |
| J050613CCVA | J050613CCVA | ORG | 74-87-3 | Chloromethane | 81 | | ug/L | 5 | 0.43 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 162% | | |
| J050613CCVA | J050613CCVA | ORG | 75-01-4 | Vinyl chloride | 74 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 148% | | |
| J050613CCVA | J050613CCVA | ORG | 74-83-9 | Bromomethane | 62 | | ug/L | 5 | 0.50 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 124% | | |
| J050613CCVA | J050613CCVA | ORG | 75-00-3 | Chloroethane | 95 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 190% | | |
| J050613CCVA | J050613CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 78 | | ug/L | 5 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 156% | | |
| J050613CCVA | J050613CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 69 | | ug/L | 1 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 138% | | |
| J050613CCVA | J050613CCVA | ORG | 75-09-2 | Methylene chloride | 65 | | ug/L | 5 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 130% | | |
| J050613CCVA | J050613CCVA | ORG | 67-64-1 | Acetone | 79 | | ug/L | 10 | 1.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 158% | | |
| J050613CCVA | J050613CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 104% | | |
| J050613CCVA | J050613CCVA | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 106% | | |
| J050613CCVA | J050613CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 66 | | ug/L | 1 | 0.53 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 132% | | |
| J050613CCVA | J050613CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 64 | | ug/L | 1 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 128% | | |
| J050613CCVA | J050613CCVA | ORG | 74-97-5 | Bromochloromethane | 64 | | ug/L | 10 | 0.81 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 128% | | |
| J050613CCVA | J050613CCVA | ORG | 67-66-3 | Chloroform | 62 | | ug/L | 2 | 0.41 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 124% | | |
| J050613CCVA | J050613CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 64 | | ug/L | 1 | 0.16 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 128% | | |
| J050613CCVA | J050613CCVA | ORG | 78-93-3 | 2-Butanone | 80 | | ug/L | 1 | 0.17 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 160% | | |
| J050613CCVA | J050613CCVA | ORG | 56-23-5 | Carbon tetrachloride | 65 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 130% | | |
| J050613CCVA | J050613CCVA | ORG | 71-43-2 | Benzene | 64 | | ug/L | 1 | 0.14 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 128% | | |
| J050613CCVA | J050613CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 64 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 128% | | |
| J050613CCVA | J050613CCVA | ORG | 79-01-6 | Trichloroethene | 63 | | ug/L | 1 | 0.36 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 126% | | |
| J050613CCVA | J050613CCVA | ORG | 74-95-3 | Dibromomethane | 65 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 130% | | |
| J050613CCVA | J050613CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 67 | | ug/L | 1 | 0.18 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 134% | | |
| J050613CCVA | J050613CCVA | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 106% | | |
| J050613CCVA | J050613CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 108% | | |
| J050613CCVA | J050613CCVA | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 100% | | |
| J050613CCVA | J050613CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 70 | | ug/L | 1 | 0.21 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 140% | | |
| J050613CCVA | J050613CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 108% | | |
| J050613CCVA | J050613CCVA | ORG | 127-18-4 | Tetrachloroethene | 42 | | ug/L | 1 | 0.49 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 84% | | |
| J050613CCVA | J050613CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 54 | | ug/L | 1 | 0.34 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 108% | | |
| J050613CCVA | J050613CCVA | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 108% | | |
| J050613CCVA | J050613CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 106% | | |
| J050613CCVA | J050613CCVA | ORG | 591-78-6 | 2-Hexanone | 67 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 134% | | |
| J050613CCVA | J050613CCVA | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 98% | | |
| J050613CCVA | J050613CCVA | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 98% | | |
| J050613CCVA | J050613CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 100% | | |
| J050613CCVA | J050613CCVA | ORG | XYLMP | p&m-Xylene | 95 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 100 | 95% | | |
| J050613CCVA | J050613CCVA | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 94% | | |
| J050613CCVA | J050613CCVA | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 108% | | |
| J050613CCVA | J050613CCVA | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613CCVA | J050613CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 110% | | |
| J050613CCVA | J050613CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 110% | | |
| J050613CCVA | J050613CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 94% | | |
| J050613CCVA | J050613CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 92% | | |
| J050613CCVA | J050613CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 98% | | |
| J050613CCVA | J050613CCVA | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 102% | | |
| J050613CCVA | J050613CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 100% | | |
| J050613CCVA | J050613CCVA | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 98% | | |
| J050613CCVA | J050613CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 52 | | ug/L | 5 | 1.59 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 104% | | |
| J050613CCVA | J050613CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 46 | | ug/L | 5 | 0.65 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 92% | | |
| J050613CCVA | J050613CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 98% | | |
| J050613CCVA | J050613CCVA | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 94% | | |
| J050613CCVA | J050613CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 96% | | |
| J050613CCVA | J050613CCVA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 106% | | |
| J050613CCVA | J050613CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 94% | | |
| J050613CCVA | J050613CCVA | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 88% | | |
| J050613CCVA | J050613CCVA | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7991 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613MBKA | J050613MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613MBKA | J050613MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | | | | |
| J050613MBKA | J050613MBKA | STD | 1868-53-7 | Dibromofluoromethane | 56 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | 50 | 112% | | |
| J050613MBKA | J050613MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | 50 | 106% | | |
| J050613MBKA | J050613MBKA | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | 50 | 88% | | |
| J050613MBKA | J050613MBKA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7992 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613ALCS | J050613ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 39 | | ug/L | 5 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 78% | | |
| J050613ALCS | J050613ALCS | ORG | 74-87-3 | Chloromethane | 46 | | ug/L | 5 | 0.43 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 92% | | |
| J050613ALCS | J050613ALCS | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 82% | | |
| J050613ALCS | J050613ALCS | ORG | 74-83-9 | Bromomethane | 57 | | ug/L | 5 | 0.50 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 114% | | |
| J050613ALCS | J050613ALCS | ORG | 75-00-3 | Chloroethane | 49 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 108% | | |
| J050613ALCS | J050613ALCS | ORG | 75-09-2 | Methylene chloride | 58 | | ug/L | 5 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 116% | | |
| J050613ALCS | J050613ALCS | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 120% | | |
| J050613ALCS | J050613ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 118% | | |
| J050613ALCS | J050613ALCS | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 112% | | |
| J050613ALCS | J050613ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 43 | | ug/L | 1 | 0.53 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 86% | | |
| J050613ALCS | J050613ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 112% | | |
| J050613ALCS | J050613ALCS | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 108% | | |
| J050613ALCS | J050613ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 108% | | |
| J050613ALCS | J050613ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 51 | | ug/L | 1 | 0.18 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 102% | | |
| J050613ALCS | J050613ALCS | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 102% | | |
| J050613ALCS | J050613ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 102% | | |
| J050613ALCS | J050613ALCS | ORG | 108-88-3 | Toluene | 52 | | ug/L | 5 | 0.74 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 51 | | ug/L | 1 | 0.21 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 102% | | |
| J050613ALCS | J050613ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 127-18-4 | Tetrachloroethene | 53 | | ug/L | 1 | 0.49 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 96% | | |
| J050613ALCS | J050613ALCS | ORG | XYLMP | p&m-Xylene | 99 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 100 | 99% | | |
| J050613ALCS | J050613ALCS | ORG | 95-47-6 | o-Xylene | 50 | | ug/L | 1 | 0.13 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 75-25-2 | Bromoform | 49 | | ug/L | 2 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 98-82-8 | Isopropylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613ALCS | J050613ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 98-06-6 | tert-Butylbenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 135-98-8 | sec-Butylbenzene | 50 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 102% | | |
| J050613ALCS | J050613ALCS | ORG | 99-87-6 | p-Isopropltoluene | 52 | | ug/L | 2 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |
| J050613ALCS | J050613ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | ORG | 91-20-3 | Naphthalene | 52 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 104% | | |
| J050613ALCS | J050613ALCS | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 108% | | |
| J050613ALCS | J050613ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 106% | | |
| J050613ALCS | J050613ALCS | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 100% | | |
| J050613ALCS | J050613ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7996 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613ALCD | J050613ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 90% | 14% | |
| J050613ALCD | J050613ALCD | ORG | 74-87-3 | Chloromethane | 48 | | ug/L | 5 | 0.43 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 96% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 96% | 16% | |
| J050613ALCD | J050613ALCD | ORG | 74-83-9 | Bromomethane | 59 | | ug/L | 5 | 0.50 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 118% | 3% | |
| J050613ALCD | J050613ALCD | ORG | 75-00-3 | Chloroethane | 50 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 100% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 55 | | ug/L | 5 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 110% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 52 | | ug/L | 1 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 112% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 120% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 112% | 5% | |
| J050613ALCD | J050613ALCD | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 40 | | ug/L | 1 | 0.53 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 80% | 7% | |
| J050613ALCD | J050613ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 54 | | ug/L | 1 | 0.16 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 56 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 112% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 51 | | ug/L | 1 | 0.18 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 6% | |
| J050613ALCD | J050613ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 108-88-3 | Toluene | 52 | | ug/L | 5 | 0.74 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 50 | | ug/L | 1 | 0.21 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 100% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 127-18-4 | Tetrachloroethene | 61 | | ug/L | 1 | 0.49 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 122% | 14% | |
| J050613ALCD | J050613ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 54 | | ug/L | 2 | 0.30 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 591-78-6 | 2-Hexanone | 49 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 98% | 6% | |
| J050613ALCD | J050613ALCD | ORG | 100-41-4 | Ethylbenzene | 51 | | ug/L | 1 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 108-90-7 | Chlorobenzene | 51 | | ug/L | 1 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.19 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 6% | |
| J050613ALCD | J050613ALCD | ORG | XYLMP | p&m-Xylene | 103 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 100 | 103% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 95-47-6 | o-Xylene | 52 | | ug/L | 1 | 0.13 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 100-42-5 | Styrene | 51 | | ug/L | 1 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 6% | |
| J050613ALCD | J050613ALCD | ORG | 98-82-8 | Isopropylbenzene | 52 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 103-65-1 | n-Propylbenzene | 51 | | ug/L | 2 | 0.27 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050613ALCD | J050613ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 52 | | ug/L | 2 | 0.29 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 51 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 98-06-6 | tert-Butylbenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 6% | |
| J050613ALCD | J050613ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 52 | | ug/L | 2 | 0.20 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 135-98-8 | sec-Butylbenzene | 51 | | ug/L | 2 | 0.32 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 99-87-6 | p-Isopropltoluene | 53 | | ug/L | 2 | 0.25 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 96% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 102% | 2% | |
| J050613ALCD | J050613ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 55 | | ug/L | 5 | 1.59 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 110% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 0% | |
| J050613ALCD | J050613ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 104% | 4% | |
| J050613ALCD | J050613ALCD | ORG | 91-20-3 | Naphthalene | 56 | | ug/L | 5 | 0.56 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 112% | 7% | |
| J050613ALCD | J050613ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 54 | | ug/L | 5 | 0.23 | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 108% | 4% | |
| J050613ALCD | J050613ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 2% | |
| J050613ALCD | J050613ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 106% | 0% | |
| J050613ALCD | J050613ALCD | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 100% | 0% | |
| J050613ALCD | J050613ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/6/2013 | 5/6/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ7997 | 50 | 100% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 4000 | | ug/L | 500 | 29.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 80% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 74-87-3 | Chloromethane | 4200 | | ug/L | 500 | 43.07 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 84% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-01-4 | Vinyl chloride | 4300 | | ug/L | 200 | 31.86 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 86% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 74-83-9 | Bromomethane | 5500 | | ug/L | 500 | 50.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 110% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-00-3 | Chloroethane | 4500 | | ug/L | 500 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 90% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 5000 | | ug/L | 500 | 19.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 4800 | | ug/L | 100 | 47.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-09-2 | Methylene chloride | 5100 | | ug/L | 500 | 26.46 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 67-64-1 | Acetone | 56000 | | ug/L | 1000 | 155.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | -140% | | 63000 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5100 | | ug/L | 100 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 1634-04-4 | MTBE | 5400 | | ug/L | 500 | 61.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 108% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 3800 | | ug/L | 100 | 52.66 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 76% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | -20% | | 27000 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 71-43-2 | Benzene | 4800 | | ug/L | 100 | 13.53 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | 12 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5200 | | ug/L | 100 | 20.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 104% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 79-01-6 | Trichloroethene | 4900 | | ug/L | 100 | 36.33 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 74-95-3 | Dibromomethane | 5100 | | ug/L | 200 | 32.20 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 500 | 74.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4800 | | ug/L | 100 | 20.96 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 89% | | 350 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 127-18-4 | Tetrachloroethene | 5400 | | ug/L | 100 | 48.56 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 108% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 104% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 591-78-6 | 2-Hexanone | 4200 | | ug/L | 200 | 26.49 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 81% | | 160 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 108-90-7 | Chlorobenzene | 4800 | | ug/L | 100 | 27.52 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5000 | | ug/L | 200 | 19.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | XYLMP | p&m-Xylene | 9800 | | ug/L | 200 | 26.14 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 10000 | 97% | | 68 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 95-47-6 | o-Xylene | 5000 | | ug/L | 100 | 12.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 99% | | 27 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 97% | | 41 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 98-82-8 | Isopropylbenzene | 4900 | | ug/L | 200 | 20.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 97% | | 28 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | | ug/L | 200 | 29.16 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 102% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4900 | | ug/L | 200 | 22.21 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 99% | | 43 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4800 | | ug/L | 200 | 33.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 96% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 98% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5500 | | ug/L | 500 | 159.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 110% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 91-20-3 | Naphthalene | 5600 | | ug/L | 500 | 56.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 108% | | 200 |
| NAL13026-159MS | Ops Batch 94-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5300 | | ug/L | 500 | 23.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 5000 | 106% | | |
| NAL13026-159MS | Ops Batch 94-MSD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 50 | 106% | | |
| NAL13026-159MS | Ops Batch 94-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 50 | 104% | | |
| NAL13026-159MS | Ops Batch 94-MSD | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 50 | 100% | | |
| NAL13026-159MS | Ops Batch 94-MSD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7998 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3800 | | ug/L | 500 | 29.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 76% | 5% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 74-87-3 | Chloromethane | 4600 | | ug/L | 500 | 43.07 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 92% | 9% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-01-4 | Vinyl chloride | 4400 | | ug/L | 200 | 31.86 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 88% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 74-83-9 | Bromomethane | 5600 | | ug/L | 500 | 50.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 112% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 94% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 4900 | | ug/L | 100 | 47.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 98% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-09-2 | Methylene chloride | 5300 | | ug/L | 500 | 26.46 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 67-64-1 | Acetone | 54000 | | ug/L | 1000 | 155.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | -180% | 4% | 63000 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5300 | | ug/L | 100 | 55.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 1634-04-4 | MTBE | 5500 | | ug/L | 500 | 61.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 110% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 3900 | | ug/L | 100 | 52.66 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 78% | 3% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 0% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 0% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | -20% | 0% | 27000 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 56-23-5 | Carbon tetrachloride | 5200 | | ug/L | 100 | 27.64 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 71-43-2 | Benzene | 5000 | | ug/L | 100 | 13.53 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 4% | 12 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5400 | | ug/L | 100 | 20.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 108% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 108% | 6% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4900 | | ug/L | 100 | 20.96 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 91% | 2% | 350 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5200 | | ug/L | 100 | 31.15 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 127-18-4 | Tetrachloroethene | 5700 | | ug/L | 100 | 48.56 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 114% | 5% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5300 | | ug/L | 100 | 34.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 6% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 124-48-1 | Dibromochloromethane | 5300 | | ug/L | 500 | 68.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 591-78-6 | 2-Hexanone | 4300 | | ug/L | 200 | 26.49 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 83% | 2% | 160 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 100-41-4 | Ethylbenzene | 5000 | | ug/L | 100 | 25.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 108-90-7 | Chlorobenzene | 5000 | | ug/L | 100 | 27.52 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | XYLMP | p&m-Xylene | 10000 | | ug/L | 200 | 26.14 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 10000 | 99% | 2% | 68 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 95-47-6 | o-Xylene | 5000 | | ug/L | 100 | 12.90 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 99% | 0% | 27 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 100-42-5 | Styrene | 5000 | | ug/L | 100 | 20.23 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 99% | 2% | 41 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 98-82-8 | Isopropylbenzene | 5100 | | ug/L | 200 | 20.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 103-65-1 | n-Propylbenzene | 5000 | | ug/L | 200 | 27.00 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 99% | 2% | 28 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 6% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 106% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 98-06-6 | tert-Butylbenzene | 5200 | | ug/L | 200 | 32.61 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 98% | 0% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 99-87-6 | p-Isopropltoluene | 5100 | | ug/L | 200 | 25.48 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 101% | 2% | 43 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 98% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 102% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 98% | 0% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5700 | | ug/L | 500 | 159.11 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 114% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 4800 | | ug/L | 500 | 65.42 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 96% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 100% | 0% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 91-20-3 | Naphthalene | 5700 | | ug/L | 500 | 56.04 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 110% | 2% | 200 |
| NAL13026-159MSD | Ops Batch 94-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 5000 | 104% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 50 | 108% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 50 | 108% | 4% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 50 | 98% | 2% | 0 |
| NAL13026-159MSD | Ops Batch 94-MSD | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/6/2013 | 5/6/2013 | 5/6/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ7999 | 50 | 102% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161 | Ops Batch 96 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 67-64-1 | Acetone | 60000 | D | ug/L | 10000 | 1556 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8022 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 78-93-3 | 2-Butanone | 24000 | D | ug/L | 10000 | 811.80 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8022 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 71-43-2 | Benzene | 79 | J | ug/L | 100 | 13.53 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 107-06-2 | 1,2-Dichloroethane | 75 | J | ug/L | 100 | 20.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 108-88-3 | Toluene | 77 | J | ug/L | 100 | 20.96 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 22 | J | ug/L | 500 | 74.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 106-93-4 | 1,2-Dibromoethane | 100 | J | ug/L | 200 | 26.49 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 591-78-6 | 2-Hexanone | 350 | J | ug/L | 500 | 68.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 100-41-4 | Ethylbenzene | 75 | J | ug/L | 100 | 25.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 108-90-7 | Chlorobenzene | 75 | J | ug/L | 100 | 27.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | XYLMP | p&m-Xylene | 180 | J | ug/L | 200 | 26.14 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 95-47-6 | o-Xylene | 79 | J | ug/L | 100 | 12.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 100-42-5 | Styrene | 100 | | ug/L | 100 | 20.23 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161 | Ops Batch 96 | ORG | 98-82-8 | Isopropylbenzene | 77 | J | ug/L | 200 | 20.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 103-65-1 | n-Propylbenzene | 90 | J | ug/L | 200 | 27.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 135-98-8 | sec-Butylbenzene | 100 | J | ug/L | 200 | 32.34 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 120 | J | ug/L | 200 | 22.21 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 99-87-6 | p-Isopropltoluene | 430 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 190 | J | ug/L | 200 | 33.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 104-51-8 | n-Butylbenzene | 140 | J | ug/L | 500 | 27.81 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 160 | J | ug/L | 500 | 27.63 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 91-20-3 | Naphthalene | 570 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | | | | |
| NAL13026-161 | Ops Batch 96 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | 50 | 98% | | |
| NAL13026-161 | Ops Batch 96 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | 50 | 100% | | |
| NAL13026-161 | Ops Batch 96 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | 50 | 100% | | |
| NAL13026-161 | Ops Batch 96 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8020 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-162 | Ops Batch 97 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 67-64-1 | Acetone | 63000 | D | ug/L | 10000 | 1556 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8023 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 78-93-3 | 2-Butanone | 25000 | D | ug/L | 10000 | 166.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8023 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 56-23-5 | Carbon tetrachloride | 80 | J | ug/L | 100 | 27.64 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 71-43-2 | Benzene | 92 | J | ug/L | 100 | 13.53 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 107-06-2 | 1,2-Dichloroethane | 77 | J | ug/L | 100 | 20.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 79 | J | ug/L | 100 | 25.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 108-88-3 | Toluene | 110 | | ug/L | 100 | 74.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 190 | J | ug/L | 500 | 20.96 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 85 | J | ug/L | 100 | 31.15 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 127-18-4 | Tetrachloroethene | 130 | | ug/L | 100 | 48.56 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 106-93-4 | 1,2-Dibromoethane | 110 | J | ug/L | 200 | 29.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 591-78-6 | 2-Hexanone | 420 | J | ug/L | 500 | 26.49 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 100-41-4 | Ethylbenzene | 110 | | ug/L | 100 | 25.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 108-90-7 | Chlorobenzene | 110 | | ug/L | 100 | 27.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | XYLMP | p&m-Xylene | 240 | | ug/L | 200 | 26.14 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 95-47-6 | o-Xylene | 110 | | ug/L | 100 | 12.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 100-42-5 | Styrene | 130 | | ug/L | 100 | 20.23 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-162 | Ops Batch 97 | ORG | 98-82-8 | Isopropylbenzene | 120 | J | ug/L | 200 | 20.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 103-65-1 | n-Propylbenzene | 130 | J | ug/L | 200 | 27.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 140 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 98-06-6 | tert-Butylbenzene | 110 | J | ug/L | 200 | 32.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 190 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 135-98-8 | sec-Butylbenzene | 150 | J | ug/L | 200 | 32.34 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 140 | J | ug/L | 200 | 22.21 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 99-87-6 | p-Isopropltoluene | 250 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 190 | J | ug/L | 200 | 33.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 104-51-8 | n-Butylbenzene | 180 | J | ug/L | 500 | 27.81 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 87-68-3 | Hexachlorobutadiene | 230 | J | ug/L | 500 | 65.42 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 250 | J | ug/L | 500 | 27.63 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 91-20-3 | Naphthalene | 610 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | | | | |
| NAL13026-162 | Ops Batch 97 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | 50 | 100% | | |
| NAL13026-162 | Ops Batch 97 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | 50 | 102% | | |
| NAL13026-162 | Ops Batch 97 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | 50 | 98% | | |
| NAL13026-162 | Ops Batch 97 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8021 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 67-64-1 | Acetone | 66000 | D | ug/L | 10000 | 1556 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8035 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 78-93-3 | 2-Butanone | 29000 | D | ug/L | 10000 | 166.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8035 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 71-43-2 | Benzene | 17 | J | ug/L | 100 | 13.53 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 108-88-3 | Toluene | 31 | J | ug/L | 100 | 74.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | | UX+ | ug/L | 500 | 20.96 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 591-78-6 | 2-Hexanone | 260 | J | ug/L | 500 | 26.49 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 100-41-4 | Ethylbenzene | 35 | J | ug/L | 100 | 25.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 108-90-7 | Chlorobenzene | 32 | J | ug/L | 100 | 27.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | XYLMP | p&m-Xylene | 77 | J | ug/L | 200 | 26.14 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 95-47-6 | o-Xylene | 30 | J | ug/L | 100 | 12.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 100-42-5 | Styrene | 59 | J | ug/L | 100 | 20.23 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-163 | Ops Batch 98-MSD | ORG | 98-82-8 | Isopropylbenzene | 36 | J | ug/L | 200 | 20.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 103-65-1 | n-Propylbenzene | 46 | J | ug/L | 200 | 27.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 58 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 140 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 99-87-6 | p-Isopropltoluene | 500 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 150 | J | ug/L | 200 | 33.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 91-20-3 | Naphthalene | 530 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | | | | |
| NAL13026-163 | Ops Batch 98-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | 50 | 102% | | |
| NAL13026-163 | Ops Batch 98-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | 50 | 100% | | |
| NAL13026-163 | Ops Batch 98-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | 50 | 98% | | |
| NAL13026-163 | Ops Batch 98-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8033 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-164 | Ops Batch 99 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-00-3 | Chloroethane | | UX+ | ug/L | 500 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 67-64-1 | Acetone | 57000 | D | ug/L | 10000 | 1556 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8036 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 78-93-3 | 2-Butanone | 25000 | D | ug/L | 10000 | 166.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8036 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 71-43-2 | Benzene | 80 | J | ug/L | 100 | 13.53 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 108-88-3 | Toluene | 58 | J | ug/L | 100 | 74.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 280 | JX+ | ug/L | 500 | 20.96 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 591-78-6 | 2-Hexanone | 300 | J | ug/L | 500 | 26.49 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 100-41-4 | Ethylbenzene | 71 | J | ug/L | 100 | 25.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 108-90-7 | Chlorobenzene | 49 | J | ug/L | 100 | 27.52 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | XYLMP | p&m-Xylene | 170 | J | ug/L | 200 | 26.14 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 95-47-6 | o-Xylene | 82 | J | ug/L | 100 | 12.90 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-164 | Ops Batch 99 | ORG | 98-82-8 | Isopropylbenzene | 75 | J | ug/L | 200 | 20.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 103-65-1 | n-Propylbenzene | 86 | J | ug/L | 200 | 27.00 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 310 | | ug/L | 200 | 20.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 135-98-8 | sec-Butylbenzene | 93 | J | ug/L | 200 | 32.34 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 330 | | ug/L | 200 | 33.03 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 104-51-8 | n-Butylbenzene | 150 | J | ug/L | 500 | 27.81 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 91-20-3 | Naphthalene | 740 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | | | | |
| NAL13026-164 | Ops Batch 99 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | 50 | 104% | | |
| NAL13026-164 | Ops Batch 99 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | 50 | 100% | | |
| NAL13026-164 | Ops Batch 99 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | 50 | 96% | | |
| NAL13026-164 | Ops Batch 99 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/7/2013 | 5/7/2013 | 5/7/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8034 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713CCVA | J050713CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 31 | | ug/L | 5 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 62% | | |
| J050713CCVA | J050713CCVA | ORG | 74-87-3 | Chloromethane | 54 | | ug/L | 5 | 0.43 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 75-01-4 | Vinyl chloride | 46 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 92% | | |
| J050713CCVA | J050713CCVA | ORG | 74-83-9 | Bromomethane | 32 | | ug/L | 5 | 0.50 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 64% | | |
| J050713CCVA | J050713CCVA | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 84% | | |
| J050713CCVA | J050713CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 43 | | ug/L | 5 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 86% | | |
| J050713CCVA | J050713CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 67-64-1 | Acetone | 47 | | ug/L | 10 | 1.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 94% | | |
| J050713CCVA | J050713CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 94% | | |
| J050713CCVA | J050713CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 102% | | |
| J050713CCVA | J050713CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 102% | | |
| J050713CCVA | J050713CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 102% | | |
| J050713CCVA | J050713CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 74-95-3 | Dibromomethane | 50 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 108-88-3 | Toluene | 54 | | ug/L | 5 | 0.74 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 118% | | |
| J050713CCVA | J050713CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 82% | | |
| J050713CCVA | J050713CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 98% | | |
| J050713CCVA | J050713CCVA | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 104% | | |
| J050713CCVA | J050713CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 104% | | |
| J050713CCVA | J050713CCVA | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 112% | | |
| J050713CCVA | J050713CCVA | ORG | 100-41-4 | Ethylbenzene | 53 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 108-90-7 | Chlorobenzene | 54 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.19 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | XYLMP | p&m-Xylene | 106 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 100 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 95-47-6 | o-Xylene | 53 | | ug/L | 1 | 0.13 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 100-42-5 | Styrene | 55 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713CCVA | J050713CCVA | ORG | 98-82-8 | Isopropylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 103-65-1 | n-Propylbenzene | 55 | | ug/L | 2 | 0.27 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 53 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 98-06-6 | tert-Butylbenzene | 54 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 53 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 106% | | |
| J050713CCVA | J050713CCVA | ORG | 135-98-8 | sec-Butylbenzene | 55 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 54 | | ug/L | 2 | 0.22 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 99-87-6 | p-Isopropltoluene | 55 | | ug/L | 2 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 54 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 54 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 108% | | |
| J050713CCVA | J050713CCVA | ORG | 104-51-8 | n-Butylbenzene | 55 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 102% | | |
| J050713CCVA | J050713CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 112% | | |
| J050713CCVA | J050713CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 56 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 112% | | |
| J050713CCVA | J050713CCVA | ORG | 91-20-3 | Naphthalene | 52 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 104% | | |
| J050713CCVA | J050713CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 55 | | ug/L | 5 | 0.23 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 110% | | |
| J050713CCVA | J050713CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 98% | | |
| J050713CCVA | J050713CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 96% | | |
| J050713CCVA | J050713CCVA | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 100% | | |
| J050713CCVA | J050713CCVA | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8018 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713MBKA | J050713MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713MBKA | J050713MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | | | | |
| J050713MBKA | J050713MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | 50 | 102% | | |
| J050713MBKA | J050713MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | 50 | 100% | | |
| J050713MBKA | J050713MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | 50 | 96% | | |
| J050713MBKA | J050713MBKA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/8/2013 | 5/8/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8019 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713CCVB | J050713CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 30 | | ug/L | 5 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 60% | | |
| J050713CCVB | J050713CCVB | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 82% | | |
| J050713CCVB | J050713CCVB | ORG | 75-01-4 | Vinyl chloride | 35 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 70% | | |
| J050713CCVB | J050713CCVB | ORG | 74-83-9 | Bromomethane | 37 | | ug/L | 5 | 0.50 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 74% | | |
| J050713CCVB | J050713CCVB | ORG | 75-00-3 | Chloroethane | 65 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 130% | | |
| J050713CCVB | J050713CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 100% | | |
| J050713CCVB | J050713CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 52 | | ug/L | 1 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | ORG | 75-09-2 | Methylene chloride | 52 | | ug/L | 5 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 120% | | |
| J050713CCVB | J050713CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 44 | | ug/L | 1 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 88% | | |
| J050713CCVB | J050713CCVB | ORG | 1634-04-4 | MTBE | 40 | | ug/L | 5 | 0.61 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 80% | | |
| J050713CCVB | J050713CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 51 | | ug/L | 1 | 0.53 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 102% | | |
| J050713CCVB | J050713CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 106% | | |
| J050713CCVB | J050713CCVB | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 106% | | |
| J050713CCVB | J050713CCVB | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 106% | | |
| J050713CCVB | J050713CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 110% | | |
| J050713CCVB | J050713CCVB | ORG | 78-93-3 | 2-Butanone | 60 | | ug/L | 1 | 0.17 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 120% | | |
| J050713CCVB | J050713CCVB | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 110% | | |
| J050713CCVB | J050713CCVB | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 102% | | |
| J050713CCVB | J050713CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 100% | | |
| J050713CCVB | J050713CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 66 | | ug/L | 1 | 0.21 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 132% | | |
| J050713CCVB | J050713CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 110% | | |
| J050713CCVB | J050713CCVB | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 88% | | |
| J050713CCVB | J050713CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 54 | | ug/L | 1 | 0.34 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 112% | | |
| J050713CCVB | J050713CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 110% | | |
| J050713CCVB | J050713CCVB | ORG | 591-78-6 | 2-Hexanone | 65 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 130% | | |
| J050713CCVB | J050713CCVB | ORG | 100-41-4 | Ethylbenzene | 48 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 98% | | |
| J050713CCVB | J050713CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 100% | | |
| J050713CCVB | J050713CCVB | ORG | XYLMP | p&m-Xylene | 94 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 100 | 94% | | |
| J050713CCVB | J050713CCVB | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 94% | | |
| J050713CCVB | J050713CCVB | ORG | 75-25-2 | Bromoform | 57 | | ug/L | 2 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 114% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713CCVB | J050713CCVB | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 114% | | |
| J050713CCVB | J050713CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 56 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 112% | | |
| J050713CCVB | J050713CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 94% | | |
| J050713CCVB | J050713CCVB | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 92% | | |
| J050713CCVB | J050713CCVB | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 102% | | |
| J050713CCVB | J050713CCVB | ORG | 99-87-6 | p-Isopropltoluene | 50 | | ug/L | 2 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 100% | | |
| J050713CCVB | J050713CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 106% | | |
| J050713CCVB | J050713CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 54 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 98% | | |
| J050713CCVB | J050713CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 58 | | ug/L | 5 | 1.59 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 116% | | |
| J050713CCVB | J050713CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 108% | | |
| J050713CCVB | J050713CCVB | ORG | 91-20-3 | Naphthalene | 50 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 100% | | |
| J050713CCVB | J050713CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 104% | | |
| J050713CCVB | J050713CCVB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 102% | | |
| J050713CCVB | J050713CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 94% | | |
| J050713CCVB | J050713CCVB | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |
| J050713CCVB | J050713CCVB | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8031 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713MBKB | J050713MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713MBKB | J050713MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | | | | |
| J050713MBKB | J050713MBKB | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | 50 | 98% | | |
| J050713MBKB | J050713MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | 50 | 94% | | |
| J050713MBKB | J050713MBKB | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | 50 | 98% | | |
| J050713MBKB | J050713MBKB | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8032 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713ALCS | J050713ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 40 | | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 80% | | |
| J050713ALCS | J050713ALCS | ORG | 74-87-3 | Chloromethane | 37 | | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 74% | | |
| J050713ALCS | J050713ALCS | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 80% | | |
| J050713ALCS | J050713ALCS | ORG | 74-83-9 | Bromomethane | 42 | | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 84% | | |
| J050713ALCS | J050713ALCS | ORG | 75-00-3 | Chloroethane | 60 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 120% | | |
| J050713ALCS | J050713ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 94% | | |
| J050713ALCS | J050713ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 100% | | |
| J050713ALCS | J050713ALCS | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 102% | | |
| J050713ALCS | J050713ALCS | ORG | 67-64-1 | Acetone | 53 | | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 112% | | |
| J050713ALCS | J050713ALCS | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |
| J050713ALCS | J050713ALCS | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 78-93-3 | 2-Butanone | 60 | | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 120% | | |
| J050713ALCS | J050713ALCS | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |
| J050713ALCS | J050713ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |
| J050713ALCS | J050713ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 75-27-4 | Bromodichloromethane | 52 | | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 100% | | |
| J050713ALCS | J050713ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 122% | | |
| J050713ALCS | J050713ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |
| J050713ALCS | J050713ALCS | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 94% | | |
| J050713ALCS | J050713ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |
| J050713ALCS | J050713ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 106% | | |
| J050713ALCS | J050713ALCS | ORG | 591-78-6 | 2-Hexanone | 60 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 120% | | |
| J050713ALCS | J050713ALCS | ORG | 100-41-4 | Ethylbenzene | 48 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 108-90-7 | Chlorobenzene | 48 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 100% | | |
| J050713ALCS | J050713ALCS | ORG | XYLMP | p&m-Xylene | 92 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 100 | 92% | | |
| J050713ALCS | J050713ALCS | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 108% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713ALCS | J050713ALCS | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 112% | | |
| J050713ALCS | J050713ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 110% | | |
| J050713ALCS | J050713ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 94% | | |
| J050713ALCS | J050713ALCS | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 94% | | |
| J050713ALCS | J050713ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 92% | | |
| J050713ALCS | J050713ALCS | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 102% | | |
| J050713ALCS | J050713ALCS | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 100% | | |
| J050713ALCS | J050713ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 56 | | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 112% | | |
| J050713ALCS | J050713ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 100% | | |
| J050713ALCS | J050713ALCS | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |
| J050713ALCS | J050713ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 104% | | |
| J050713ALCS | J050713ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 96% | | |
| J050713ALCS | J050713ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8024 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713ALCD | J050713ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 41 | | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 82% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 74-87-3 | Chloromethane | 44 | | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 88% | 17% | |
| J050713ALCD | J050713ALCD | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 84% | 5% | |
| J050713ALCD | J050713ALCD | ORG | 74-83-9 | Bromomethane | 37 | | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 74% | 13% | |
| J050713ALCD | J050713ALCD | ORG | 75-00-3 | Chloroethane | 62 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 124% | 3% | |
| J050713ALCD | J050713ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 46 | | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 124% | 16% | |
| J050713ALCD | J050713ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 94% | 17% | |
| J050713ALCD | J050713ALCD | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 6% | |
| J050713ALCD | J050713ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 102% | 6% | |
| J050713ALCD | J050713ALCD | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 102% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 78-93-3 | 2-Butanone | 66 | | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 132% | 10% | |
| J050713ALCD | J050713ALCD | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 8% | |
| J050713ALCD | J050713ALCD | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 98% | 6% | |
| J050713ALCD | J050713ALCD | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 75-27-4 | Bromodichloromethane | 52 | | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 108-88-3 | Toluene | 38 | | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 76% | 27% | |
| J050713ALCD | J050713ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 68 | | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 136% | 11% | |
| J050713ALCD | J050713ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 127-18-4 | Tetrachloroethene | 48 | | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 106% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 106% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 591-78-6 | 2-Hexanone | 67 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 134% | 11% | |
| J050713ALCD | J050713ALCD | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 94% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 4% | |
| J050713ALCD | J050713ALCD | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 100 | 90% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 110% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050713ALCD | J050713ALCD | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 94% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 112% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 56 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 112% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 92% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 90% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 90% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 94% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 98% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 100% | 2% | |
| J050713ALCD | J050713ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 4% | |
| J050713ALCD | J050713ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 60 | | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 120% | 7% | |
| J050713ALCD | J050713ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 104% | 0% | |
| J050713ALCD | J050713ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 106% | 6% | |
| J050713ALCD | J050713ALCD | ORG | 91-20-3 | Naphthalene | 51 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 102% | 6% | |
| J050713ALCD | J050713ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 53 | | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 106% | 8% | |
| J050713ALCD | J050713ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 102% | 2% | |
| J050713ALCD | J050713ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 96% | 0% | |
| J050713ALCD | J050713ALCD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 98% | 2% | |
| J050713ALCD | J050713ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8025 | 50 | 98% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161MS | Ops Batch 96 | ORG | 75-71-8 | Dichlorodifluoromethane | 3200 | | ug/L | 500 | 29.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 64% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 74-87-3 | Chloromethane | 3400 | | ug/L | 500 | 43.07 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 68% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-01-4 | Vinyl chloride | 3300 | | ug/L | 200 | 31.86 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 66% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 74-83-9 | Bromomethane | 3400 | | ug/L | 500 | 50.04 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 68% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-69-4 | Trichlorofluoromethane | 4000 | | ug/L | 500 | 19.65 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 80% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-35-4 | 1,1-Dichloroethene | 4800 | | ug/L | 100 | 47.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 96% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 67-64-1 | Acetone | 63000 | | ug/L | 1000 | 155.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 60% | | 60000 |
| NAL13026-161MS | Ops Batch 96 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4300 | | ug/L | 100 | 55.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 86% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 1634-04-4 | MTBE | 4100 | | ug/L | 500 | 61.18 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 82% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 78-93-3 | 2-Butanone | 33000 | | ug/L | 100 | 16.65 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 180% | | 24000 |
| NAL13026-161MS | Ops Batch 96 | ORG | 56-23-5 | Carbon tetrachloride | 5300 | | ug/L | 100 | 27.64 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 106% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 71-43-2 | Benzene | 5100 | | ug/L | 100 | 13.53 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 100% | | 79 |
| NAL13026-161MS | Ops Batch 96 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 105% | | 75 |
| NAL13026-161MS | Ops Batch 96 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 108% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 78-87-5 | 1,2-Dichloropropane | 5300 | | ug/L | 100 | 18.17 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 106% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 98% | | 77 |
| NAL13026-161MS | Ops Batch 96 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6100 | | ug/L | 100 | 20.96 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 122% | | 22 |
| NAL13026-161MS | Ops Batch 96 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 106% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 90% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5300 | | ug/L | 100 | 34.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 106% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 108% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | 100 |
| NAL13026-161MS | Ops Batch 96 | ORG | 591-78-6 | 2-Hexanone | 5500 | | ug/L | 200 | 26.49 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 103% | | 350 |
| NAL13026-161MS | Ops Batch 96 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 95% | | 75 |
| NAL13026-161MS | Ops Batch 96 | ORG | 108-90-7 | Chlorobenzene | 4900 | | ug/L | 100 | 27.52 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 97% | | 75 |
| NAL13026-161MS | Ops Batch 96 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 102% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | XYLMP | p&m-Xylene | 9300 | | ug/L | 200 | 26.14 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 10000 | 91% | | 180 |
| NAL13026-161MS | Ops Batch 96 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 94% | | 79 |
| NAL13026-161MS | Ops Batch 96 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 94% | | 100 |
| NAL13026-161MS | Ops Batch 96 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161MS | Ops Batch 96 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 94% | | 77 |
| NAL13026-161MS | Ops Batch 96 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 96% | | 90 |
| NAL13026-161MS | Ops Batch 96 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5700 | | ug/L | 200 | 29.16 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 114% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5600 | | ug/L | 200 | 29.47 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 112% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 94% | | 110 |
| NAL13026-161MS | Ops Batch 96 | ORG | 98-06-6 | tert-Butylbenzene | 4900 | | ug/L | 200 | 32.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 98% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 90% | | 180 |
| NAL13026-161MS | Ops Batch 96 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 96% | | 100 |
| NAL13026-161MS | Ops Batch 96 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 100% | | 120 |
| NAL13026-161MS | Ops Batch 96 | ORG | 99-87-6 | p-Isopropltoluene | 5500 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 101% | | 430 |
| NAL13026-161MS | Ops Batch 96 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5200 | | ug/L | 200 | 33.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 100% | | 190 |
| NAL13026-161MS | Ops Batch 96 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5400 | | ug/L | 200 | 26.38 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 106% | | 110 |
| NAL13026-161MS | Ops Batch 96 | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 99% | | 140 |
| NAL13026-161MS | Ops Batch 96 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6000 | | ug/L | 500 | 159.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 120% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 104% | | |
| NAL13026-161MS | Ops Batch 96 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5400 | | ug/L | 500 | 27.63 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 105% | | 160 |
| NAL13026-161MS | Ops Batch 96 | ORG | 91-20-3 | Naphthalene | 5600 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 101% | | 570 |
| NAL13026-161MS | Ops Batch 96 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5400 | | ug/L | 500 | 23.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 5000 | 108% | | |
| NAL13026-161MS | Ops Batch 96 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 50 | 100% | | |
| NAL13026-161MS | Ops Batch 96 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 50 | 94% | | |
| NAL13026-161MS | Ops Batch 96 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 50 | 98% | | |
| NAL13026-161MS | Ops Batch 96 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8026 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-71-8 | Dichlorodifluoromethane | 4200 | | ug/L | 500 | 29.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 84% | 27% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 74-87-3 | Chloromethane | 4100 | | ug/L | 500 | 43.07 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 82% | 19% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-01-4 | Vinyl chloride | 4000 | | ug/L | 200 | 31.86 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 80% | 19% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 74-83-9 | Bromomethane | 3500 | | ug/L | 500 | 50.04 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 70% | 3% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-00-3 | Chloroethane | 6400 | | ug/L | 500 | 55.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 128% | 21% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-69-4 | Trichlorofluoromethane | 5000 | | ug/L | 500 | 19.65 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 100% | 22% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-35-4 | 1,1-Dichloroethene | 4900 | | ug/L | 100 | 47.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 104% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 67-64-1 | Acetone | 72000 | | ug/L | 1000 | 155.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 240% | 13% | 60000 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4200 | | ug/L | 100 | 55.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 84% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 1634-04-4 | MTBE | 4400 | | ug/L | 500 | 61.18 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 88% | 7% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-34-3 | 1,1-Dichloroethane | 4900 | | ug/L | 100 | 52.66 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 102% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 74-97-5 | Bromochloromethane | 5300 | | ug/L | 1000 | 81.18 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 106% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 67-66-3 | Chloroform | 5000 | | ug/L | 200 | 41.37 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 100% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5300 | | ug/L | 100 | 15.73 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 106% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 78-93-3 | 2-Butanone | 35000 | | ug/L | 100 | 16.65 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 220% | 6% | 24000 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 56-23-5 | Carbon tetrachloride | 5300 | | ug/L | 100 | 27.64 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 106% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 71-43-2 | Benzene | 5000 | | ug/L | 100 | 13.53 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 2% | 79 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 107-06-2 | 1,2-Dichloroethane | 5400 | | ug/L | 100 | 20.01 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 107% | 2% | 75 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 79-01-6 | Trichloroethene | 4900 | | ug/L | 100 | 36.33 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 108% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 100% | 6% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 104% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 104% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 0% | 77 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6800 | | ug/L | 100 | 20.96 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 136% | 11% | 22 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 108% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 86% | 5% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5500 | | ug/L | 100 | 34.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 110% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 124-48-1 | Dibromochloromethane | 5500 | | ug/L | 500 | 68.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 110% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 104% | 0% | 100 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 591-78-6 | 2-Hexanone | 5900 | | ug/L | 200 | 26.49 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 111% | 7% | 350 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 93% | 2% | 75 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 108-90-7 | Chlorobenzene | 4800 | | ug/L | 100 | 27.52 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 95% | 2% | 75 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4900 | | ug/L | 200 | 19.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | XYLMP | p&m-Xylene | 9300 | | ug/L | 200 | 26.14 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 10000 | 91% | 0% | 180 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 95-47-6 | o-Xylene | 4900 | | ug/L | 100 | 12.90 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 96% | 2% | 79 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 94% | 0% | 100 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 75-25-2 | Bromoform | 5700 | | ug/L | 200 | 46.83 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 114% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-161MSD | Ops Batch 96 | ORG | 98-82-8 | Isopropylbenzene | 4900 | | ug/L | 200 | 20.48 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 96% | 2% | 77 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 96% | 0% | 90 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 6000 | | ug/L | 200 | 29.16 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 120% | 5% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5900 | | ug/L | 200 | 29.47 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 118% | 5% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 94% | 0% | 110 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 96% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 92% | 2% | 180 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 96% | 0% | 100 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 100% | 0% | 120 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 99-87-6 | p-Isopropltoluene | 5300 | | ug/L | 200 | 25.48 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 97% | 4% | 430 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 102% | 2% | 190 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5300 | | ug/L | 200 | 26.38 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 104% | 2% | 110 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 95% | 4% | 140 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6500 | | ug/L | 500 | 159.11 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 130% | 8% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 87-68-3 | Hexachlorobutadiene | 4900 | | ug/L | 500 | 65.42 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 98% | 6% | 0 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5300 | | ug/L | 500 | 27.63 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 103% | 2% | 160 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 91-20-3 | Naphthalene | 5900 | | ug/L | 500 | 56.04 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 107% | 5% | 570 |
| NAL13026-161MSD | Ops Batch 96 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5400 | | ug/L | 500 | 23.28 | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 5000 | 108% | 0% | 0 |
| NAL13026-161MSD | Ops Batch 96 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 50 | 102% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 50 | 98% | 4% | 0 |
| NAL13026-161MSD | Ops Batch 96 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 50 | 100% | 2% | 0 |
| NAL13026-161MSD | Ops Batch 96 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/7/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8027 | 50 | 102% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165 | Ops Batch 102 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 67-64-1 | Acetone | 68000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8041 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 78-93-3 | 2-Butanone | 29000 | DX+ | ug/L | 10000 | 811.80 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8041 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 71-43-2 | Benzene | 34 | J | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 108-88-3 | Toluene | 23 | J | ug/L | 100 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 90 | J | ug/L | 500 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 591-78-6 | 2-Hexanone | 270 | JX+ | ug/L | 500 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 100-41-4 | Ethylbenzene | 34 | J | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | XYLMP | p&m-Xylene | 89 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 98-82-8 | Isopropylbenzene | 38 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 103-65-1 | n-Propylbenzene | 46 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165 | Ops Batch 102 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 79 | J | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 280 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 99-87-6 | p-Isopropltoluene | 1300 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 270 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 91-20-3 | Naphthalene | 690 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | | | | |
| NAL13026-165 | Ops Batch 102 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | 50 | 102% | | |
| NAL13026-165 | Ops Batch 102 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | 50 | 100% | | |
| NAL13026-165 | Ops Batch 102 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | 50 | 94% | | |
| NAL13026-165 | Ops Batch 102 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8040 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 67-64-1 | Acetone | 66000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8043 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 78-93-3 | 2-Butanone | 27000 | DX+ | ug/L | 10000 | 166.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8043 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 71-43-2 | Benzene | 16 | J | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 108-88-3 | Toluene | 21 | J | ug/L | 100 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | | UX+ | ug/L | 500 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 591-78-6 | 2-Hexanone | 310 | JX+ | ug/L | 500 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 100-41-4 | Ethylbenzene | 25 | J | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | XYLMP | p&m-Xylene | 58 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 95-47-6 | o-Xylene | 22 | J | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 98-82-8 | Isopropylbenzene | 25 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 103-65-1 | n-Propylbenzene | 36 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-170 | Ops Batch 100-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 98 | J | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 99-87-6 | p-Isopropltoluene | 180 | J | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 75 | J | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 91-20-3 | Naphthalene | 310 | J | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | | | | |
| NAL13026-170 | Ops Batch 100-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | 50 | 104% | | |
| NAL13026-170 | Ops Batch 100-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | 50 | 104% | | |
| NAL13026-170 | Ops Batch 100-MSD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | 50 | 94% | | |
| NAL13026-170 | Ops Batch 100-MSD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8042 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 67-64-1 | Acetone | 160000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8049 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 78-93-3 | 2-Butanone | 70000 | DX+ | ug/L | 1000 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8049 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 71-43-2 | Benzene | 18 | J | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1300 | X+ | ug/L | 500 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 591-78-6 | 2-Hexanone | 920 | X+ | ug/L | 500 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | XYLMP | p&m-Xylene | 78 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 95-47-6 | o-Xylene | 34 | J | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 23 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 29 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 160 | J | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 26 | J | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 420 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 190 | J | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 91-20-3 | Naphthalene | 600 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | | | | |
| NAL13026-166 | Ops Batch 101-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | 50 | 104% | | |
| NAL13026-166 | Ops Batch 101-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | 50 | 106% | | |
| NAL13026-166 | Ops Batch 101-ST T1 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | 50 | 94% | | |
| NAL13026-166 | Ops Batch 101-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8045 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 67-64-1 | Acetone | 140000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8050 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 78-93-3 | 2-Butanone | 64000 | DX+ | ug/L | 1000 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8050 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 71-43-2 | Benzene | 51 | J | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1700 | X+ | ug/L | 500 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 591-78-6 | 2-Hexanone | 1000 | X+ | ug/L | 500 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 100-41-4 | Ethylbenzene | 37 | J | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | XYLMP | p&m-Xylene | 100 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 95-47-6 | o-Xylene | 60 | J | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 100-42-5 | Styrene | 51 | J | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 98-82-8 | Isopropylbenzene | 32 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 103-65-1 | n-Propylbenzene | 32 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 240 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | 22 | J | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 760 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 300 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 91-20-3 | Naphthalene | 620 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | | | | |
| NAL13026-167 | Ops Batch 101-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | 50 | 98% | | |
| NAL13026-167 | Ops Batch 101-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | 50 | 102% | | |
| NAL13026-167 | Ops Batch 101-ST T2 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | 50 | 96% | | |
| NAL13026-167 | Ops Batch 101-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8046 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 67-64-1 | Acetone | 140000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8051 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 78-93-3 | 2-Butanone | 66000 | DX+ | ug/L | 1000 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8051 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 71-43-2 | Benzene | 130 | | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1800 | X+ | ug/L | 500 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 591-78-6 | 2-Hexanone | 1000 | X+ | ug/L | 500 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 100-41-4 | Ethylbenzene | 61 | J | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | XYLMP | p&m-Xylene | 160 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 95-47-6 | o-Xylene | 96 | J | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 53 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 56 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 88 | J | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 320 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 34 | J | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 390 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 91-20-3 | Naphthalene | 680 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | | | | |
| NAL13026-168 | Ops Batch 101-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | 50 | 104% | | |
| NAL13026-168 | Ops Batch 101-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | 50 | 106% | | |
| NAL13026-168 | Ops Batch 101-ST T3 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | 50 | 94% | | |
| NAL13026-168 | Ops Batch 101-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8047 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 67-64-1 | Acetone | 150000 | D | ug/L | 10000 | 1556.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8052 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 78-93-3 | 2-Butanone | 65000 | DX+ | ug/L | 1000 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8052 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 71-43-2 | Benzene | 120 | | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1800 | X+ | ug/L | 500 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 591-78-6 | 2-Hexanone | 980 | X+ | ug/L | 500 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | XYLMP | p&m-Xylene | 150 | J | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 95-47-6 | o-Xylene | 89 | J | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 45 | J | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 45 | J | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 310 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 370 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 91-20-3 | Naphthalene | 640 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | | | | |
| NAL13026-169 | Ops Batch 101-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | 50 | 104% | | |
| NAL13026-169 | Ops Batch 101-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | 50 | 104% | | |
| NAL13026-169 | Ops Batch 101-ST T4 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | 50 | 96% | | |
| NAL13026-169 | Ops Batch 101-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8048 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813CCVA | J050813CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 34 | | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 68% | | |
| J050813CCVA | J050813CCVA | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 75-01-4 | Vinyl chloride | 37 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 74% | | |
| J050813CCVA | J050813CCVA | ORG | 74-83-9 | Bromomethane | 34 | | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 68% | | |
| J050813CCVA | J050813CCVA | ORG | 75-00-3 | Chloroethane | 55 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 110% | | |
| J050813CCVA | J050813CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 90% | | |
| J050813CCVA | J050813CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 98% | | |
| J050813CCVA | J050813CCVA | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 100% | | |
| J050813CCVA | J050813CCVA | ORG | 67-64-1 | Acetone | 56 | | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 112% | | |
| J050813CCVA | J050813CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 100% | | |
| J050813CCVA | J050813CCVA | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 96% | | |
| J050813CCVA | J050813CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 110% | | |
| J050813CCVA | J050813CCVA | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 78-93-3 | 2-Butanone | 63 | | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 126% | | |
| J050813CCVA | J050813CCVA | ORG | 56-23-5 | Carbon tetrachloride | 53 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 71-43-2 | Benzene | 53 | | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 102% | | |
| J050813CCVA | J050813CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 100% | | |
| J050813CCVA | J050813CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 66 | | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 132% | | |
| J050813CCVA | J050813CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 88% | | |
| J050813CCVA | J050813CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 126% | | |
| J050813CCVA | J050813CCVA | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 92% | | |
| J050813CCVA | J050813CCVA | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 98% | | |
| J050813CCVA | J050813CCVA | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 100 | 91% | | |
| J050813CCVA | J050813CCVA | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 96% | | |
| J050813CCVA | J050813CCVA | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813CCVA | J050813CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 96% | | |
| J050813CCVA | J050813CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 102% | | |
| J050813CCVA | J050813CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 98% | | |
| J050813CCVA | J050813CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 100% | | |
| J050813CCVA | J050813CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 98% | | |
| J050813CCVA | J050813CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 106% | | |
| J050813CCVA | J050813CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 108% | | |
| J050813CCVA | J050813CCVA | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 98% | | |
| J050813CCVA | J050813CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 104% | | |
| J050813CCVA | J050813CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 100% | | |
| J050813CCVA | J050813CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 92% | | |
| J050813CCVA | J050813CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |
| J050813CCVA | J050813CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8038 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813MBKA | J050813MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813MBKA | J050813MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | | | | |
| J050813MBKA | J050813MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | 50 | 102% | | |
| J050813MBKA | J050813MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | 50 | 102% | | |
| J050813MBKA | J050813MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | 50 | 94% | | |
| J050813MBKA | J050813MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/5/2013 | 5/5/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8039 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813ALCS | J050813ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 15 | | ug/L | 5 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 30% | | |
| J050813ALCS | J050813ALCS | ORG | 74-87-3 | Chloromethane | 19 | | ug/L | 5 | 0.43 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 38% | | |
| J050813ALCS | J050813ALCS | ORG | 75-01-4 | Vinyl chloride | 21 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 42% | | |
| J050813ALCS | J050813ALCS | ORG | 74-83-9 | Bromomethane | 30 | | ug/L | 5 | 0.50 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 60% | | |
| J050813ALCS | J050813ALCS | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 84% | | |
| J050813ALCS | J050813ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 33 | | ug/L | 5 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 66% | | |
| J050813ALCS | J050813ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 106% | | |
| J050813ALCS | J050813ALCS | ORG | 75-09-2 | Methylene chloride | 52 | | ug/L | 5 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | ORG | 67-64-1 | Acetone | 61 | | ug/L | 10 | 1.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 122% | | |
| J050813ALCS | J050813ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 43 | | ug/L | 1 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 86% | | |
| J050813ALCS | J050813ALCS | ORG | 1634-04-4 | MTBE | 37 | | ug/L | 5 | 0.61 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 74% | | |
| J050813ALCS | J050813ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 108% | | |
| J050813ALCS | J050813ALCS | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 106% | | |
| J050813ALCS | J050813ALCS | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 112% | | |
| J050813ALCS | J050813ALCS | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 108% | | |
| J050813ALCS | J050813ALCS | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 106% | | |
| J050813ALCS | J050813ALCS | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 106% | | |
| J050813ALCS | J050813ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 55 | | ug/L | 1 | 0.21 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 110% | | |
| J050813ALCS | J050813ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 106% | | |
| J050813ALCS | J050813ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 102% | | |
| J050813ALCS | J050813ALCS | ORG | 591-78-6 | 2-Hexanone | 57 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 114% | | |
| J050813ALCS | J050813ALCS | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 92% | | |
| J050813ALCS | J050813ALCS | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 96% | | |
| J050813ALCS | J050813ALCS | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 100 | 89% | | |
| J050813ALCS | J050813ALCS | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 90% | | |
| J050813ALCS | J050813ALCS | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 90% | | |
| J050813ALCS | J050813ALCS | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 108% | | |
| J050813ALCS | J050813ALCS | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813ALCS | J050813ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 102% | | |
| J050813ALCS | J050813ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 90% | | |
| J050813ALCS | J050813ALCS | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 102% | | |
| J050813ALCS | J050813ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 102% | | |
| J050813ALCS | J050813ALCS | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 94% | | |
| J050813ALCS | J050813ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 102% | | |
| J050813ALCS | J050813ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 100% | | |
| J050813ALCS | J050813ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 104% | | |
| J050813ALCS | J050813ALCS | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 98% | | |
| J050813ALCS | J050813ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 90% | | |
| J050813ALCS | J050813ALCS | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 90% | | |
| J050813ALCS | J050813ALCS | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8053 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813ALCD | J050813ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 23 | | ug/L | 5 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 46% | 42% | |
| J050813ALCD | J050813ALCD | ORG | 74-87-3 | Chloromethane | 21 | | ug/L | 5 | 0.43 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 42% | 10% | |
| J050813ALCD | J050813ALCD | ORG | 75-01-4 | Vinyl chloride | 33 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 66% | 44% | |
| J050813ALCD | J050813ALCD | ORG | 74-83-9 | Bromomethane | 43 | | ug/L | 5 | 0.50 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 36% | |
| J050813ALCD | J050813ALCD | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 23% | |
| J050813ALCD | J050813ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 35% | |
| J050813ALCD | J050813ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 51 | | ug/L | 1 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 4% | |
| J050813ALCD | J050813ALCD | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 67-64-1 | Acetone | 47 | | ug/L | 10 | 1.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 26% | |
| J050813ALCD | J050813ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 90% | 5% | |
| J050813ALCD | J050813ALCD | ORG | 1634-04-4 | MTBE | 39 | | ug/L | 5 | 0.61 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 78% | 5% | |
| J050813ALCD | J050813ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 100% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 108% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 100% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 104% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 106% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 100% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 96% | 4% | |
| J050813ALCD | J050813ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 0% | |
| J050813ALCD | J050813ALCD | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 4% | |
| J050813ALCD | J050813ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 52 | | ug/L | 1 | 0.21 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 104% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 127-18-4 | Tetrachloroethene | 46 | | ug/L | 1 | 0.49 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 92% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 4% | |
| J050813ALCD | J050813ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 4% | |
| J050813ALCD | J050813ALCD | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 104% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 108-90-7 | Chlorobenzene | 44 | | ug/L | 1 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 88% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 90% | 6% | |
| J050813ALCD | J050813ALCD | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 100 | 82% | 8% | |
| J050813ALCD | J050813ALCD | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 84% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 84% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 100% | 8% | |
| J050813ALCD | J050813ALCD | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 103-65-1 | n-Propylbenzene | 43 | | ug/L | 2 | 0.27 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 7% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050813ALCD | J050813ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 92% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 96% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 84% | 11% | |
| J050813ALCD | J050813ALCD | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 84% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 88% | 7% | |
| J050813ALCD | J050813ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 90% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 96% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 96% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 104-51-8 | n-Butylbenzene | 43 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 86% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 92% | 10% | |
| J050813ALCD | J050813ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 49 | | ug/L | 5 | 0.65 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 2% | |
| J050813ALCD | J050813ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 6% | |
| J050813ALCD | J050813ALCD | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 90% | 9% | |
| J050813ALCD | J050813ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 98% | 6% | |
| J050813ALCD | J050813ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 102% | 4% | |
| J050813ALCD | J050813ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 4% | |
| J050813ALCD | J050813ALCD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 94% | 4% | |
| J050813ALCD | J050813ALCD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/7/2013 | 5/7/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8054 | 50 | 90% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165MS | Ops Batch 102 | ORG | 75-71-8 | Dichlorodifluoromethane | 3200 | | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 64% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 74-87-3 | Chloromethane | 3000 | | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 60% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-01-4 | Vinyl chloride | 3500 | | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 70% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 74-83-9 | Bromomethane | 4000 | | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 80% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-00-3 | Chloroethane | 6400 | | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 128% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 94% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-35-4 | 1,1-Dichloroethene | 5300 | | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 106% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-09-2 | Methylene chloride | 5300 | | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 106% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 67-64-1 | Acetone | 65000 | | ug/L | 1000 | 155.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | -60% | | 68000 |
| NAL13026-165MS | Ops Batch 102 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4800 | | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 96% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 1634-04-4 | MTBE | 4200 | | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 84% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 104% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5400 | | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 74-97-5 | Bromochloromethane | 5800 | | ug/L | 1000 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 116% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 67-66-3 | Chloroform | 5400 | | ug/L | 200 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 112% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 78-93-3 | 2-Butanone | 32000 | | ug/L | 100 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 60% | | 29000 |
| NAL13026-165MS | Ops Batch 102 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 112% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 71-43-2 | Benzene | 5300 | | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 105% | | 34 |
| NAL13026-165MS | Ops Batch 102 | ORG | 107-06-2 | 1,2-Dichloroethane | 5700 | | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 114% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 79-01-6 | Trichloroethene | 5400 | | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 110% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 78-87-5 | 1,2-Dichloropropane | 5400 | | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 100% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 100% | | 23 |
| NAL13026-165MS | Ops Batch 102 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 104% | | 90 |
| NAL13026-165MS | Ops Batch 102 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 127-18-4 | Tetrachloroethene | 6000 | | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 120% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 106% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 591-78-6 | 2-Hexanone | 4000 | | ug/L | 200 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 75% | | 270 |
| NAL13026-165MS | Ops Batch 102 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 95% | | 34 |
| NAL13026-165MS | Ops Batch 102 | ORG | 108-90-7 | Chlorobenzene | 5000 | | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 100% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5300 | | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 106% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | XYLMP | p&m-Xylene | 9300 | | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 10000 | 92% | | 89 |
| NAL13026-165MS | Ops Batch 102 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 96% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 96% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 75-25-2 | Bromoform | 5900 | | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 118% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 98-82-8 | Isopropylbenzene | 5000 | | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 99% | | 38 |
| NAL13026-165MS | Ops Batch 102 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 97% | | 46 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165MS | Ops Batch 102 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 104% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 96% | | 79 |
| NAL13026-165MS | Ops Batch 102 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 92% | | 280 |
| NAL13026-165MS | Ops Batch 102 | ORG | 135-98-8 | sec-Butylbenzene | 5000 | | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 100% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 104% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 99-87-6 | p-Isopropltoluene | 6400 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 102% | | 1300 |
| NAL13026-165MS | Ops Batch 102 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5600 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 107% | | 270 |
| NAL13026-165MS | Ops Batch 102 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5500 | | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 110% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 104-51-8 | n-Butylbenzene | 5000 | | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 100% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5800 | | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 116% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 87-68-3 | Hexachlorobutadiene | 5500 | | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 110% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5400 | | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 108% | | |
| NAL13026-165MS | Ops Batch 102 | ORG | 91-20-3 | Naphthalene | 5900 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 104% | | 690 |
| NAL13026-165MS | Ops Batch 102 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5600 | | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 5000 | 112% | | |
| NAL13026-165MS | Ops Batch 102 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 50 | 102% | | |
| NAL13026-165MS | Ops Batch 102 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 50 | 98% | | |
| NAL13026-165MS | Ops Batch 102 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 50 | 94% | | |
| NAL13026-165MS | Ops Batch 102 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8055 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-71-8 | Dichlorodifluoromethane | 3000 | | ug/L | 500 | 29.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 60% | 6% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 74-87-3 | Chloromethane | 2900 | | ug/L | 500 | 43.07 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 58% | 3% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-01-4 | Vinyl chloride | 3400 | | ug/L | 200 | 31.86 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 68% | 3% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 74-83-9 | Bromomethane | 3600 | | ug/L | 500 | 50.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 72% | 11% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-00-3 | Chloroethane | 5700 | | ug/L | 500 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 114% | 12% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 94% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-35-4 | 1,1-Dichloroethene | 5300 | | ug/L | 100 | 47.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 106% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-09-2 | Methylene chloride | 5900 | | ug/L | 500 | 26.46 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 118% | 11% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 67-64-1 | Acetone | 67000 | | ug/L | 1000 | 155.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | -20% | 3% | 68000 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4700 | | ug/L | 100 | 55.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 94% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 1634-04-4 | MTBE | 4400 | | ug/L | 500 | 61.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 88% | 5% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-34-3 | 1,1-Dichloroethane | 5300 | | ug/L | 100 | 52.66 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 106% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5500 | | ug/L | 100 | 32.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 110% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 74-97-5 | Bromochloromethane | 5900 | | ug/L | 1000 | 81.18 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 118% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 67-66-3 | Chloroform | 5400 | | ug/L | 200 | 41.37 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 108% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 112% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 78-93-3 | 2-Butanone | 33000 | | ug/L | 100 | 16.65 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 80% | 3% | 29000 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 114% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 71-43-2 | Benzene | 5300 | | ug/L | 100 | 13.53 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 105% | 0% | 34 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 107-06-2 | 1,2-Dichloroethane | 5800 | | ug/L | 100 | 20.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 116% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 110% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 74-95-3 | Dibromomethane | 5800 | | ug/L | 200 | 32.20 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 116% | 5% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 112% | 4% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 102% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 100% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 100% | 0% | 23 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 0% | 90 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5200 | | ug/L | 100 | 31.15 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 127-18-4 | Tetrachloroethene | 6000 | | ug/L | 100 | 48.56 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 120% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 124-48-1 | Dibromochloromethane | 5700 | | ug/L | 500 | 68.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 114% | 5% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 106-93-4 | 1,2-Dibromoethane | 5500 | | ug/L | 200 | 29.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 110% | 4% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 77% | 2% | 270 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 93% | 2% | 34 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 108-90-7 | Chlorobenzene | 4800 | | ug/L | 100 | 27.52 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 96% | 4% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5200 | | ug/L | 200 | 19.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 10000 | 90% | 2% | 89 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 94% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 96% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 75-25-2 | Bromoform | 5800 | | ug/L | 200 | 46.83 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 116% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 98-82-8 | Isopropylbenzene | 4900 | | ug/L | 200 | 20.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 97% | 2% | 38 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 93% | 4% | 46 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-165MSD | Ops Batch 102 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5200 | | ug/L | 200 | 29.16 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 94% | 2% | 79 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 98-06-6 | tert-Butylbenzene | 5700 | | ug/L | 200 | 32.61 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 114% | 11% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 90% | 2% | 280 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 98% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 99-87-6 | p-Isopropltoluene | 6100 | | ug/L | 200 | 25.48 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 96% | 5% | 1300 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 101% | 6% | 270 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5400 | | ug/L | 200 | 26.38 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 108% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 96% | 4% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5700 | | ug/L | 500 | 159.11 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 114% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 6% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5300 | | ug/L | 500 | 27.63 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 106% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 91-20-3 | Naphthalene | 5700 | | ug/L | 500 | 56.04 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 100% | 3% | 690 |
| NAL13026-165MSD | Ops Batch 102 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 5000 | 104% | 7% | 0 |
| NAL13026-165MSD | Ops Batch 102 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 50 | 104% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 50 | 100% | 2% | 0 |
| NAL13026-165MSD | Ops Batch 102 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 50 | 94% | 0% | 0 |
| NAL13026-165MSD | Ops Batch 102 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/8/2013 | 5/8/2013 | 5/8/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8056 | 50 | 92% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171 | Ops Batch 103 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 67-64-1 | Acetone | 84000 | D | ug/L | 10000 | 1556.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8064 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 78-93-3 | 2-Butanone | 33000 | D | ug/L | 10000 | 811.80 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8064 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 71-43-2 | Benzene | 16 | J | ug/L | 100 | 13.53 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 500 | 74.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 591-78-6 | 2-Hexanone | 300 | | ug/L | 500 | 68.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | XYLMP | p&m-Xylene | 44 | J | ug/L | 200 | 26.14 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 95-47-6 | o-Xylene | 19 | J | ug/L | 100 | 12.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171 | Ops Batch 103 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 140 | J | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 99-87-6 | p-Isopropltoluene | 520 | | ug/L | 200 | 25.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 150 | J | ug/L | 200 | 33.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 104-51-8 | n-Butylbenzene | 66 | J | ug/L | 500 | 27.81 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 91-20-3 | Naphthalene | 420 | | ug/L | 500 | 56.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | | | | |
| NAL13026-171 | Ops Batch 103 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | 50 | 104% | | |
| NAL13026-171 | Ops Batch 103 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | 50 | 98% | | |
| NAL13026-171 | Ops Batch 103 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | 50 | 94% | | |
| NAL13026-171 | Ops Batch 103 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8063 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-172 | Ops Batch 104 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 67-64-1 | Acetone | 65000 | D | ug/L | 10000 | 1556.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8069 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 78-93-3 | 2-Butanone | 23000 | D | ug/L | 10000 | 166.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8069 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 500 | 20.96 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 591-78-6 | 2-Hexanone | 190 | J | ug/L | 500 | 26.49 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | XYLMP | p&m-Xylene | 38 | J | ug/L | 200 | 26.14 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 100-42-5 | Styrene | 33 | J | ug/L | 100 | 20.23 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 103-65-1 | n-Propylbenzene | 26 | J | ug/L | 200 | 27.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-172 | Ops Batch 104 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 99-87-6 | p-Isopropltoluene | 150 | J | ug/L | 200 | 25.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 79 | J | ug/L | 200 | 33.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 91-20-3 | Naphthalene | 320 | J | ug/L | 500 | 56.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | | | | |
| NAL13026-172 | Ops Batch 104 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | 50 | 106% | | |
| NAL13026-172 | Ops Batch 104 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | 50 | 102% | | |
| NAL13026-172 | Ops Batch 104 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | 50 | 90% | | |
| NAL13026-172 | Ops Batch 104 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8068 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 67-64-1 | Acetone | 50000 | D | ug/L | 10000 | 1556.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8071 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 78-93-3 | 2-Butanone | 16000 | D | ug/L | 10000 | 166.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8071 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 500 | 20.96 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 591-78-6 | 2-Hexanone | 150 | J | ug/L | 500 | 26.49 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-173 | Ops Batch 105-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 99-87-6 | p-Isopropltoluene | 65 | J | ug/L | 200 | 25.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 91-20-3 | Naphthalene | 200 | J | ug/L | 500 | 56.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | | | | |
| NAL13026-173 | Ops Batch 105-MSD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | 50 | 106% | | |
| NAL13026-173 | Ops Batch 105-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | 50 | 102% | | |
| NAL13026-173 | Ops Batch 105-MSD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | 50 | 92% | | |
| NAL13026-173 | Ops Batch 105-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8070 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913CCVA | J050913CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 22 | | ug/L | 5 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 44% | | |
| J050913CCVA | J050913CCVA | ORG | 74-87-3 | Chloromethane | 31 | | ug/L | 5 | 0.43 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 62% | | |
| J050913CCVA | J050913CCVA | ORG | 75-01-4 | Vinyl chloride | 31 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 62% | | |
| J050913CCVA | J050913CCVA | ORG | 74-83-9 | Bromomethane | 34 | | ug/L | 5 | 0.50 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 68% | | |
| J050913CCVA | J050913CCVA | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 106% | | |
| J050913CCVA | J050913CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 90% | | |
| J050913CCVA | J050913CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 51 | | ug/L | 1 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 106% | | |
| J050913CCVA | J050913CCVA | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 104% | | |
| J050913CCVA | J050913CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 112% | | |
| J050913CCVA | J050913CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 104% | | |
| J050913CCVA | J050913CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 106% | | |
| J050913CCVA | J050913CCVA | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 110% | | |
| J050913CCVA | J050913CCVA | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 106% | | |
| J050913CCVA | J050913CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 108% | | |
| J050913CCVA | J050913CCVA | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 108% | | |
| J050913CCVA | J050913CCVA | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 108% | | |
| J050913CCVA | J050913CCVA | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 106% | | |
| J050913CCVA | J050913CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 104% | | |
| J050913CCVA | J050913CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 96% | | |
| J050913CCVA | J050913CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 100% | | |
| J050913CCVA | J050913CCVA | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 56 | | ug/L | 1 | 0.21 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 112% | | |
| J050913CCVA | J050913CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 127-18-4 | Tetrachloroethene | 42 | | ug/L | 1 | 0.49 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 84% | | |
| J050913CCVA | J050913CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 96% | | |
| J050913CCVA | J050913CCVA | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 102% | | |
| J050913CCVA | J050913CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 100% | | |
| J050913CCVA | J050913CCVA | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 112% | | |
| J050913CCVA | J050913CCVA | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 86% | | |
| J050913CCVA | J050913CCVA | ORG | 108-90-7 | Chlorobenzene | 44 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |
| J050913CCVA | J050913CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 92% | | |
| J050913CCVA | J050913CCVA | ORG | XYLMP | p&m-Xylene | 84 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 100 | 84% | | |
| J050913CCVA | J050913CCVA | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 86% | | |
| J050913CCVA | J050913CCVA | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |
| J050913CCVA | J050913CCVA | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 100% | | |
| J050913CCVA | J050913CCVA | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |
| J050913CCVA | J050913CCVA | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913CCVA | J050913CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 96% | | |
| J050913CCVA | J050913CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 86% | | |
| J050913CCVA | J050913CCVA | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 86% | | |
| J050913CCVA | J050913CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 86% | | |
| J050913CCVA | J050913CCVA | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |
| J050913CCVA | J050913CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 96% | | |
| J050913CCVA | J050913CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 92% | | |
| J050913CCVA | J050913CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 98% | | |
| J050913CCVA | J050913CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 98% | | |
| J050913CCVA | J050913CCVA | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 88% | | |
| J050913CCVA | J050913CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 47 | | ug/L | 5 | 0.65 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 100% | | |
| J050913CCVA | J050913CCVA | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 90% | | |
| J050913CCVA | J050913CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 96% | | |
| J050913CCVA | J050913CCVA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 104% | | |
| J050913CCVA | J050913CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 94% | | |
| J050913CCVA | J050913CCVA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 92% | | |
| J050913CCVA | J050913CCVA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8059 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913MBKA | J050913MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913MBKA | J050913MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | | | | |
| J050913MBKA | J050913MBKA | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | 50 | 108% | | |
| J050913MBKA | J050913MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | 50 | 104% | | |
| J050913MBKA | J050913MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | 50 | 94% | | |
| J050913MBKA | J050913MBKA | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8062 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913ALCS | J050913ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 19 | | ug/L | 5 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 38% | | |
| J050913ALCS | J050913ALCS | ORG | 74-87-3 | Chloromethane | 24 | | ug/L | 5 | 0.43 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 48% | | |
| J050913ALCS | J050913ALCS | ORG | 75-01-4 | Vinyl chloride | 28 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 56% | | |
| J050913ALCS | J050913ALCS | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 82% | | |
| J050913ALCS | J050913ALCS | ORG | 75-00-3 | Chloroethane | 65 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 130% | | |
| J050913ALCS | J050913ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 100% | | |
| J050913ALCS | J050913ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 52 | | ug/L | 1 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 104% | | |
| J050913ALCS | J050913ALCS | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 106% | | |
| J050913ALCS | J050913ALCS | ORG | 67-64-1 | Acetone | 44 | | ug/L | 10 | 1.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 96% | | |
| J050913ALCS | J050913ALCS | ORG | 1634-04-4 | MTBE | 38 | | ug/L | 5 | 0.61 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 76% | | |
| J050913ALCS | J050913ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 104% | | |
| J050913ALCS | J050913ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 108% | | |
| J050913ALCS | J050913ALCS | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 110% | | |
| J050913ALCS | J050913ALCS | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 106% | | |
| J050913ALCS | J050913ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 110% | | |
| J050913ALCS | J050913ALCS | ORG | 78-93-3 | 2-Butanone | 45 | | ug/L | 1 | 0.17 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |
| J050913ALCS | J050913ALCS | ORG | 56-23-5 | Carbon tetrachloride | 56 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 112% | | |
| J050913ALCS | J050913ALCS | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 102% | | |
| J050913ALCS | J050913ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 106% | | |
| J050913ALCS | J050913ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 106% | | |
| J050913ALCS | J050913ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 106% | | |
| J050913ALCS | J050913ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 104% | | |
| J050913ALCS | J050913ALCS | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 98% | | |
| J050913ALCS | J050913ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 100% | | |
| J050913ALCS | J050913ALCS | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 96% | | |
| J050913ALCS | J050913ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 49 | | ug/L | 1 | 0.21 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 98% | | |
| J050913ALCS | J050913ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 98% | | |
| J050913ALCS | J050913ALCS | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 82% | | |
| J050913ALCS | J050913ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 92% | | |
| J050913ALCS | J050913ALCS | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 100% | | |
| J050913ALCS | J050913ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 94% | | |
| J050913ALCS | J050913ALCS | ORG | 591-78-6 | 2-Hexanone | 49 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 98% | | |
| J050913ALCS | J050913ALCS | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |
| J050913ALCS | J050913ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 94% | | |
| J050913ALCS | J050913ALCS | ORG | XYLMP | p&m-Xylene | 86 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 100 | 86% | | |
| J050913ALCS | J050913ALCS | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 92% | | |
| J050913ALCS | J050913ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 92% | | |
| J050913ALCS | J050913ALCS | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913ALCS | J050913ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 84% | | |
| J050913ALCS | J050913ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 44 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 88% | | |
| J050913ALCS | J050913ALCS | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |
| J050913ALCS | J050913ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 86% | | |
| J050913ALCS | J050913ALCS | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |
| J050913ALCS | J050913ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 96% | | |
| J050913ALCS | J050913ALCS | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 94% | | |
| J050913ALCS | J050913ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 98% | | |
| J050913ALCS | J050913ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 100% | | |
| J050913ALCS | J050913ALCS | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |
| J050913ALCS | J050913ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 41 | | ug/L | 5 | 1.59 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 82% | | |
| J050913ALCS | J050913ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 104% | | |
| J050913ALCS | J050913ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 102% | | |
| J050913ALCS | J050913ALCS | ORG | 91-20-3 | Naphthalene | 40 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 80% | | |
| J050913ALCS | J050913ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 94% | | |
| J050913ALCS | J050913ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 104% | | |
| J050913ALCS | J050913ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 92% | | |
| J050913ALCS | J050913ALCS | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 94% | | |
| J050913ALCS | J050913ALCS | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8060 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913ALCD | J050913ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 21 | | ug/L | 5 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 42% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 74-87-3 | Chloromethane | 27 | | ug/L | 5 | 0.43 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 54% | 12% | |
| J050913ALCD | J050913ALCD | ORG | 75-01-4 | Vinyl chloride | 31 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 62% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 74-83-9 | Bromomethane | 42 | | ug/L | 5 | 0.50 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 84% | 2% | |
| J050913ALCD | J050913ALCD | ORG | 75-00-3 | Chloroethane | 63 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 126% | 3% | |
| J050913ALCD | J050913ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 75-09-2 | Methylene chloride | 58 | | ug/L | 5 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 116% | 9% | |
| J050913ALCD | J050913ALCD | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 100% | 13% | |
| J050913ALCD | J050913ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 102% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 1634-04-4 | MTBE | 42 | | ug/L | 5 | 0.61 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 84% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 54 | | ug/L | 1 | 0.53 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 112% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 74-97-5 | Bromochloromethane | 59 | | ug/L | 10 | 0.81 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 118% | 7% | |
| J050913ALCD | J050913ALCD | ORG | 67-66-3 | Chloroform | 55 | | ug/L | 2 | 0.41 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 110% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 57 | | ug/L | 1 | 0.16 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 114% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 114% | 24% | |
| J050913ALCD | J050913ALCD | ORG | 56-23-5 | Carbon tetrachloride | 58 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 116% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 116% | 9% | |
| J050913ALCD | J050913ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 110% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 114% | 7% | |
| J050913ALCD | J050913ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 55 | | ug/L | 1 | 0.18 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 110% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 75-27-4 | Bromodichloromethane | 52 | | ug/L | 2 | 0.12 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 104% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 106% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 98% | 2% | |
| J050913ALCD | J050913ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 63 | | ug/L | 1 | 0.21 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 126% | 25% | |
| J050913ALCD | J050913ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 88% | 7% | |
| J050913ALCD | J050913ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 51 | | ug/L | 1 | 0.34 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 102% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 124-48-1 | Dibromochloromethane | 55 | | ug/L | 5 | 0.69 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 110% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 104% | 10% | |
| J050913ALCD | J050913ALCD | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 126% | 25% | |
| J050913ALCD | J050913ALCD | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 92% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 98% | 4% | |
| J050913ALCD | J050913ALCD | ORG | XYLMP | p&m-Xylene | 88 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 100 | 88% | 2% | |
| J050913ALCD | J050913ALCD | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 90% | 2% | |
| J050913ALCD | J050913ALCD | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 92% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 106% | 14% | |
| J050913ALCD | J050913ALCD | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 2% | |
| J050913ALCD | J050913ALCD | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 90% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J050913ALCD | J050913ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 96% | 13% | |
| J050913ALCD | J050913ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 100% | 13% | |
| J050913ALCD | J050913ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 92% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 90% | 5% | |
| J050913ALCD | J050913ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 100% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 98% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 102% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 104% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 98% | 18% | |
| J050913ALCD | J050913ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 4% | |
| J050913ALCD | J050913ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 108% | 6% | |
| J050913ALCD | J050913ALCD | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 94% | 16% | |
| J050913ALCD | J050913ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 53 | | ug/L | 5 | 0.23 | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 106% | 12% | |
| J050913ALCD | J050913ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 106% | 2% | |
| J050913ALCD | J050913ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 96% | 4% | |
| J050913ALCD | J050913ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 92% | 2% | |
| J050913ALCD | J050913ALCD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/9/2013 | 5/9/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8061 | 50 | 90% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171MS | Ops Batch 103 | ORG | 75-71-8 | Dichlorodifluoromethane | 1700 | | ug/L | 500 | 29.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 34% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 74-87-3 | Chloromethane | 2600 | | ug/L | 500 | 43.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 52% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-01-4 | Vinyl chloride | 2700 | | ug/L | 200 | 31.86 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 54% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 74-83-9 | Bromomethane | 3400 | | ug/L | 500 | 50.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 68% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 106% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-35-4 | 1,1-Dichloroethene | 5500 | | ug/L | 100 | 47.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 110% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 114% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 67-64-1 | Acetone | 90000 | | ug/L | 1000 | 155.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 120% | | 84000 |
| NAL13026-171MS | Ops Batch 103 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4700 | | ug/L | 100 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 1634-04-4 | MTBE | 4000 | | ug/L | 500 | 61.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 80% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 104% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5500 | | ug/L | 100 | 32.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 110% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 74-97-5 | Bromochloromethane | 5600 | | ug/L | 1000 | 81.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 112% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 67-66-3 | Chloroform | 5300 | | ug/L | 200 | 41.37 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 106% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 112% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 78-93-3 | 2-Butanone | 40000 | | ug/L | 100 | 16.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 140% | | 33000 |
| NAL13026-171MS | Ops Batch 103 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 112% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 104% | | 16 |
| NAL13026-171MS | Ops Batch 103 | ORG | 107-06-2 | 1,2-Dichloroethane | 5600 | | ug/L | 100 | 20.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 112% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 79-01-6 | Trichloroethene | 5400 | | ug/L | 100 | 36.33 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 108% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 108% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 78-87-5 | 1,2-Dichloropropane | 5300 | | ug/L | 100 | 18.17 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 106% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-27-4 | Bromodichloromethane | 4900 | | ug/L | 200 | 11.58 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 98% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 100% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 108-88-3 | Toluene | 4800 | | ug/L | 500 | 74.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 96% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 106% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 102% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 86% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 96% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 124-48-1 | Dibromochloromethane | 5300 | | ug/L | 500 | 68.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 106% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 102% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 591-78-6 | 2-Hexanone | 4800 | | ug/L | 200 | 26.49 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | 300 |
| NAL13026-171MS | Ops Batch 103 | ORG | 100-41-4 | Ethylbenzene | 4500 | | ug/L | 100 | 25.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 108-90-7 | Chlorobenzene | 4700 | | ug/L | 100 | 27.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 96% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | XYLMP | p&m-Xylene | 8900 | | ug/L | 200 | 26.14 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 10000 | 89% | | 44 |
| NAL13026-171MS | Ops Batch 103 | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | 19 |
| NAL13026-171MS | Ops Batch 103 | ORG | 100-42-5 | Styrene | 4500 | | ug/L | 100 | 20.23 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 100% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 103-65-1 | n-Propylbenzene | 4600 | | ug/L | 200 | 27.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171MS | Ops Batch 103 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4700 | | ug/L | 200 | 29.16 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4800 | | ug/L | 200 | 29.47 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 96% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 92% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 98-06-6 | tert-Butylbenzene | 4500 | | ug/L | 200 | 32.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 87% | | 140 |
| NAL13026-171MS | Ops Batch 103 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 92% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 100% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 99-87-6 | p-Isopropltoluene | 5300 | | ug/L | 200 | 25.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 96% | | 520 |
| NAL13026-171MS | Ops Batch 103 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5200 | | ug/L | 200 | 33.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 101% | | 150 |
| NAL13026-171MS | Ops Batch 103 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 98% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 93% | | 66 |
| NAL13026-171MS | Ops Batch 103 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4900 | | ug/L | 500 | 159.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 98% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 87-68-3 | Hexachlorobutadiene | 4700 | | ug/L | 500 | 65.42 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 100% | | |
| NAL13026-171MS | Ops Batch 103 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 90% | | 420 |
| NAL13026-171MS | Ops Batch 103 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 5000 | 98% | | |
| NAL13026-171MS | Ops Batch 103 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 50 | 102% | | |
| NAL13026-171MS | Ops Batch 103 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 50 | 94% | | |
| NAL13026-171MS | Ops Batch 103 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 50 | 92% | | |
| NAL13026-171MS | Ops Batch 103 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8065 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-71-8 | Dichlorodifluoromethane | 1500 | | ug/L | 500 | 29.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 30% | 13% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 74-87-3 | Chloromethane | 2300 | | ug/L | 500 | 43.07 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 46% | 12% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-01-4 | Vinyl chloride | 2600 | | ug/L | 200 | 31.86 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 52% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 74-83-9 | Bromomethane | 3400 | | ug/L | 500 | 50.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 68% | 0% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 104% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 0% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-35-4 | 1,1-Dichloroethene | 5000 | | ug/L | 100 | 47.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 100% | 10% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-09-2 | Methylene chloride | 5900 | | ug/L | 500 | 26.46 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 118% | 3% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 67-64-1 | Acetone | 94000 | | ug/L | 1000 | 155.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 200% | 4% | 84000 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5000 | | ug/L | 100 | 55.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 100% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 1634-04-4 | MTBE | 4200 | | ug/L | 500 | 61.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 84% | 5% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-34-3 | 1,1-Dichloroethane | 5300 | | ug/L | 100 | 52.66 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 106% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 112% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 74-97-5 | Bromochloromethane | 5800 | | ug/L | 1000 | 81.18 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 116% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 67-66-3 | Chloroform | 5600 | | ug/L | 200 | 41.37 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 112% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 116% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 78-93-3 | 2-Butanone | 42000 | | ug/L | 100 | 16.65 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 180% | 5% | 33000 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 56-23-5 | Carbon tetrachloride | 5800 | | ug/L | 100 | 27.64 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 116% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 108% | 4% | 16 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 107-06-2 | 1,2-Dichloroethane | 5800 | | ug/L | 100 | 20.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 116% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 110% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 74-95-3 | Dibromomethane | 5800 | | ug/L | 200 | 32.20 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 116% | 7% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 78-87-5 | 1,2-Dichloropropane | 5400 | | ug/L | 100 | 18.17 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 108% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 102% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 104% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 500 | 74.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 98% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5200 | | ug/L | 100 | 20.96 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 104% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 106% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 127-18-4 | Tetrachloroethene | 4400 | | ug/L | 100 | 48.56 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 88% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 102% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 108% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 106% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 591-78-6 | 2-Hexanone | 4600 | | ug/L | 200 | 26.49 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 86% | 4% | 300 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 108-90-7 | Chlorobenzene | 4900 | | ug/L | 100 | 27.52 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 98% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5000 | | ug/L | 200 | 19.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 100% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 10000 | 91% | 2% | 44 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 4% | 19 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 100-42-5 | Styrene | 4700 | | ug/L | 100 | 20.23 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 75-25-2 | Bromoform | 5400 | | ug/L | 200 | 46.83 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 108% | 8% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 96% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-171MSD | Ops Batch 103 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | | ug/L | 200 | 29.16 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 100% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 102% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 98-06-6 | tert-Butylbenzene | 4700 | | ug/L | 200 | 32.61 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 94% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 89% | 2% | 140 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 92% | 0% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 102% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 99-87-6 | p-Isopropltoluene | 5500 | | ug/L | 200 | 25.48 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 100% | 4% | 520 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 103% | 2% | 150 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 104% | 6% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 93% | 0% | 66 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5300 | | ug/L | 500 | 159.11 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 106% | 8% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 87-68-3 | Hexachlorobutadiene | 4600 | | ug/L | 500 | 65.42 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 92% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5200 | | ug/L | 500 | 27.63 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 104% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 91-20-3 | Naphthalene | 5300 | | ug/L | 500 | 56.04 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 98% | 8% | 420 |
| NAL13026-171MSD | Ops Batch 103 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5100 | | ug/L | 500 | 23.28 | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 5000 | 102% | 4% | 0 |
| NAL13026-171MSD | Ops Batch 103 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 50 | 104% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 50 | 96% | 2% | 0 |
| NAL13026-171MSD | Ops Batch 103 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 50 | 92% | 0% | 0 |
| NAL13026-171MSD | Ops Batch 103 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/9/2013 | 5/9/2013 | 5/9/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8066 | 50 | 94% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174 | Ops Batch 106 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 67-64-1 | Acetone | 35000 | D | ug/L | 10000 | 1556.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8091 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 78-93-3 | 2-Butanone | 21000 | D | ug/L | 10000 | 811.80 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8091 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 71-43-2 | Benzene | 100 | | ug/L | 100 | 13.53 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 108-88-3 | Toluene | 88 | J | ug/L | 100 | 20.96 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 480 | JX+ | ug/L | 500 | 74.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 591-78-6 | 2-Hexanone | 270 | J | ug/L | 500 | 68.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 100-41-4 | Ethylbenzene | 81 | J | ug/L | 100 | 25.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 108-90-7 | Chlorobenzene | 78 | J | ug/L | 100 | 27.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | XYLMP | p&m-Xylene | 180 | J | ug/L | 200 | 26.14 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 95-47-6 | o-Xylene | 88 | J | ug/L | 100 | 12.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 98-82-8 | Isopropylbenzene | 78 | J | ug/L | 200 | 20.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 103-65-1 | n-Propylbenzene | 91 | J | ug/L | 200 | 27.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174 | Ops Batch 106 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 135-98-8 | sec-Butylbenzene | 90 | J | ug/L | 200 | 32.34 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 99-87-6 | p-Isopropltoluene | 420 | | ug/L | 200 | 25.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 104-51-8 | n-Butylbenzene | 140 | J | ug/L | 500 | 27.81 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 160 | J | ug/L | 500 | 27.63 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 91-20-3 | Naphthalene | 460 | J | ug/L | 500 | 56.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | | | | |
| NAL13026-174 | Ops Batch 106 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | 50 | 102% | | |
| NAL13026-174 | Ops Batch 106 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | 50 | 106% | | |
| NAL13026-174 | Ops Batch 106 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | 50 | 98% | | |
| NAL13026-174 | Ops Batch 106 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8090 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 10000 | 1556.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8097 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 78-93-3 | 2-Butanone | 29000 | D | ug/L | 10000 | 166.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8097 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 71-43-2 | Benzene | 55 | J | ug/L | 100 | 13.53 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 108-88-3 | Toluene | 62 | J | ug/L | 100 | 74.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 450 | JX+ | ug/L | 500 | 20.96 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 591-78-6 | 2-Hexanone | 350 | J | ug/L | 500 | 26.49 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 100-41-4 | Ethylbenzene | 63 | J | ug/L | 100 | 25.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 108-90-7 | Chlorobenzene | 51 | J | ug/L | 100 | 27.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | XYLMP | p&m-Xylene | 140 | J | ug/L | 200 | 26.14 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 95-47-6 | o-Xylene | 55 | J | ug/L | 100 | 12.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 100-42-5 | Styrene | 67 | J | ug/L | 100 | 20.23 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 98-82-8 | Isopropylbenzene | 74 | J | ug/L | 200 | 20.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 103-65-1 | n-Propylbenzene | 91 | J | ug/L | 200 | 27.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-175 | Ops Batch 107-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 98-06-6 | tert-Butylbenzene | 70 | J | ug/L | 200 | 32.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 140 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 135-98-8 | sec-Butylbenzene | 99 | J | ug/L | 200 | 32.34 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 99-87-6 | p-Isopropltoluene | 220 | | ug/L | 200 | 25.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 170 | J | ug/L | 500 | 27.63 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 91-20-3 | Naphthalene | 410 | J | ug/L | 500 | 56.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | | | | |
| NAL13026-175 | Ops Batch 107-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | 50 | 102% | | |
| NAL13026-175 | Ops Batch 107-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | 50 | 104% | | |
| NAL13026-175 | Ops Batch 107-MSD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | 50 | 94% | | |
| NAL13026-175 | Ops Batch 107-MSD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8095 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-176 | Ops Batch 108 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 67-64-1 | Acetone | 43000 | D | ug/L | 10000 | 1556.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8098 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 10000 | 166.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8098 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 71-43-2 | Benzene | 80 | J | ug/L | 100 | 13.53 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 108-88-3 | Toluene | 79 | J | ug/L | 100 | 74.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 730 | X+ | ug/L | 500 | 20.96 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 127-18-4 | Tetrachloroethene | 100 | | ug/L | 100 | 48.56 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 591-78-6 | 2-Hexanone | 480 | J | ug/L | 500 | 26.49 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 100-41-4 | Ethylbenzene | 82 | J | ug/L | 100 | 25.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | XYLMP | p&m-Xylene | 180 | J | ug/L | 200 | 26.14 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 95-47-6 | o-Xylene | 76 | J | ug/L | 100 | 12.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 100-42-5 | Styrene | 90 | J | ug/L | 100 | 20.23 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 98-82-8 | Isopropylbenzene | 87 | J | ug/L | 200 | 20.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 103-65-1 | n-Propylbenzene | 110 | J | ug/L | 200 | 27.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-176 | Ops Batch 108 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 98-06-6 | tert-Butylbenzene | 80 | J | ug/L | 200 | 32.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 135-98-8 | sec-Butylbenzene | 110 | J | ug/L | 200 | 32.34 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 99-87-6 | p-Isopropltoluene | 280 | | ug/L | 200 | 25.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 130 | J | ug/L | 200 | 26.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 104-51-8 | n-Butylbenzene | 170 | J | ug/L | 500 | 27.81 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 240 | J | ug/L | 500 | 27.63 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 91-20-3 | Naphthalene | 600 | | ug/L | 500 | 56.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 310 | J | ug/L | 500 | 23.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | | | | |
| NAL13026-176 | Ops Batch 108 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | 50 | 104% | | |
| NAL13026-176 | Ops Batch 108 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | 50 | 108% | | |
| NAL13026-176 | Ops Batch 108 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | 50 | 94% | | |
| NAL13026-176 | Ops Batch 108 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8096 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013CCVA | J051013CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 90% | | |
| J051013CCVA | J051013CCVA | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 94% | | |
| J051013CCVA | J051013CCVA | ORG | 75-01-4 | Vinyl chloride | 39 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 78% | | |
| J051013CCVA | J051013CCVA | ORG | 74-83-9 | Bromomethane | 49 | | ug/L | 5 | 0.50 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 51 | | ug/L | 1 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 67-64-1 | Acetone | 53 | | ug/L | 10 | 1.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 104% | | |
| J051013CCVA | J051013CCVA | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 108% | | |
| J051013CCVA | J051013CCVA | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 106% | | |
| J051013CCVA | J051013CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 104% | | |
| J051013CCVA | J051013CCVA | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 108% | | |
| J051013CCVA | J051013CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 104% | | |
| J051013CCVA | J051013CCVA | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 100% | | |
| J051013CCVA | J051013CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 66 | | ug/L | 1 | 0.21 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 132% | | |
| J051013CCVA | J051013CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 104% | | |
| J051013CCVA | J051013CCVA | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 88% | | |
| J051013CCVA | J051013CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 104% | | |
| J051013CCVA | J051013CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 591-78-6 | 2-Hexanone | 60 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 120% | | |
| J051013CCVA | J051013CCVA | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 90% | | |
| J051013CCVA | J051013CCVA | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 92% | | |
| J051013CCVA | J051013CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 100 | 89% | | |
| J051013CCVA | J051013CCVA | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 92% | | |
| J051013CCVA | J051013CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 90% | | |
| J051013CCVA | J051013CCVA | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 100% | | |
| J051013CCVA | J051013CCVA | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 94% | | |
| J051013CCVA | J051013CCVA | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013CCVA | J051013CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 90% | | |
| J051013CCVA | J051013CCVA | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 92% | | |
| J051013CCVA | J051013CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 92% | | |
| J051013CCVA | J051013CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 102% | | |
| J051013CCVA | J051013CCVA | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 108% | | |
| J051013CCVA | J051013CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 100% | | |
| J051013CCVA | J051013CCVA | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 90% | | |
| J051013CCVA | J051013CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 100% | | |
| J051013CCVA | J051013CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 98% | | |
| J051013CCVA | J051013CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |
| J051013CCVA | J051013CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8088 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013MBKA | J051013MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013MBKA | J051013MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | | | | |
| J051013MBKA | J051013MBKA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | 50 | 100% | | |
| J051013MBKA | J051013MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | 50 | 108% | | |
| J051013MBKA | J051013MBKA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | 50 | 98% | | |
| J051013MBKA | J051013MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8089 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013ALCS | J051013ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 44 | | ug/L | 5 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 88% | | |
| J051013ALCS | J051013ALCS | ORG | 74-87-3 | Chloromethane | 27 | | ug/L | 5 | 0.43 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 54% | | |
| J051013ALCS | J051013ALCS | ORG | 75-01-4 | Vinyl chloride | 36 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 72% | | |
| J051013ALCS | J051013ALCS | ORG | 74-83-9 | Bromomethane | 43 | | ug/L | 5 | 0.50 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 86% | | |
| J051013ALCS | J051013ALCS | ORG | 75-00-3 | Chloroethane | 61 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 122% | | |
| J051013ALCS | J051013ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 100% | | |
| J051013ALCS | J051013ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 100% | | |
| J051013ALCS | J051013ALCS | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 67-64-1 | Acetone | 46 | | ug/L | 10 | 1.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 92% | | |
| J051013ALCS | J051013ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 110% | | |
| J051013ALCS | J051013ALCS | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 100% | | |
| J051013ALCS | J051013ALCS | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 110% | | |
| J051013ALCS | J051013ALCS | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 110% | | |
| J051013ALCS | J051013ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 104% | | |
| J051013ALCS | J051013ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 104% | | |
| J051013ALCS | J051013ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 100% | | |
| J051013ALCS | J051013ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 67 | | ug/L | 1 | 0.21 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 134% | | |
| J051013ALCS | J051013ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.31 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 94% | | |
| J051013ALCS | J051013ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 106% | | |
| J051013ALCS | J051013ALCS | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 118% | | |
| J051013ALCS | J051013ALCS | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 96% | | |
| J051013ALCS | J051013ALCS | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 100 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 92% | | |
| J051013ALCS | J051013ALCS | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013ALCS | J051013ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 108% | | |
| J051013ALCS | J051013ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 92% | | |
| J051013ALCS | J051013ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 88% | | |
| J051013ALCS | J051013ALCS | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 94% | | |
| J051013ALCS | J051013ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 96% | | |
| J051013ALCS | J051013ALCS | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 94% | | |
| J051013ALCS | J051013ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 96% | | |
| J051013ALCS | J051013ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 104% | | |
| J051013ALCS | J051013ALCS | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 92% | | |
| J051013ALCS | J051013ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 96% | | |
| J051013ALCS | J051013ALCS | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 86% | | |
| J051013ALCS | J051013ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 90% | | |
| J051013ALCS | J051013ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 102% | | |
| J051013ALCS | J051013ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 96% | | |
| J051013ALCS | J051013ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8092 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013ALCD | J051013ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 38 | | ug/L | 5 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 76% | 15% | |
| J051013ALCD | J051013ALCD | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 82% | 41% | |
| J051013ALCD | J051013ALCD | ORG | 75-01-4 | Vinyl chloride | 38 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 76% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 82% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 75-00-3 | Chloroethane | 46 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 92% | 28% | |
| J051013ALCD | J051013ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 88% | 13% | |
| J051013ALCD | J051013ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 96% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 75-09-2 | Methylene chloride | 49 | | ug/L | 5 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 12% | |
| J051013ALCD | J051013ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 62 | | ug/L | 1 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 124% | 12% | |
| J051013ALCD | J051013ALCD | ORG | 1634-04-4 | MTBE | 61 | | ug/L | 5 | 0.61 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 122% | 12% | |
| J051013ALCD | J051013ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 110% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 110% | 8% | |
| J051013ALCD | J051013ALCD | ORG | 56-23-5 | Carbon tetrachloride | 56 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 112% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 106% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 75-27-4 | Bromodichloromethane | 52 | | ug/L | 2 | 0.12 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 6% | |
| J051013ALCD | J051013ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 63 | | ug/L | 1 | 0.21 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 126% | 6% | |
| J051013ALCD | J051013ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 94% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 100% | 6% | |
| J051013ALCD | J051013ALCD | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 106% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 591-78-6 | 2-Hexanone | 61 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 122% | 3% | |
| J051013ALCD | J051013ALCD | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 86% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 86% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 92% | 4% | |
| J051013ALCD | J051013ALCD | ORG | XYLMP | p&m-Xylene | 86 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 100 | 86% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 88% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 86% | 5% | |
| J051013ALCD | J051013ALCD | ORG | 75-25-2 | Bromoform | 49 | | ug/L | 2 | 0.47 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 88% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 90% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051013ALCD | J051013ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 88% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 90% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 88% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 94% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 96% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 94% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 96% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 104% | 0% | |
| J051013ALCD | J051013ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 96% | 4% | |
| J051013ALCD | J051013ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 100% | 2% | |
| J051013ALCD | J051013ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 108% | 6% | |
| J051013ALCD | J051013ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 6% | |
| J051013ALCD | J051013ALCD | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 92% | 7% | |
| J051013ALCD | J051013ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 98% | 9% | |
| J051013ALCD | J051013ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 102% | 0% | |
| J051013ALCD | J051013ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 100% | 2% | |
| J051013ALCD | J051013ALCD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 94% | 2% | |
| J051013ALCD | J051013ALCD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/10/2013 | 5/10/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8093 | 50 | 94% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174MS | Ops Batch 106 | ORG | 75-71-8 | Dichlorodifluoromethane | 4200 | | ug/L | 500 | 29.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 84% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 74-87-3 | Chloromethane | 3400 | | ug/L | 500 | 43.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 68% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 76% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 74-83-9 | Bromomethane | 3600 | | ug/L | 500 | 50.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 72% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-69-4 | Trichlorofluoromethane | 4400 | | ug/L | 500 | 19.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 88% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-35-4 | 1,1-Dichloroethene | 4700 | | ug/L | 100 | 47.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 94% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-09-2 | Methylene chloride | 4800 | | ug/L | 500 | 26.46 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 96% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 67-64-1 | Acetone | 34000 | | ug/L | 1000 | 155.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | -20% | | 35000 |
| NAL13026-174MS | Ops Batch 106 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 110% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 1634-04-4 | MTBE | 5800 | | ug/L | 500 | 61.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 116% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 100% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 67-66-3 | Chloroform | 5200 | | ug/L | 200 | 41.37 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 78-93-3 | 2-Butanone | 22000 | | ug/L | 100 | 16.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 20% | | 21000 |
| NAL13026-174MS | Ops Batch 106 | ORG | 56-23-5 | Carbon tetrachloride | 5300 | | ug/L | 100 | 27.64 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 106% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 71-43-2 | Benzene | 5100 | | ug/L | 100 | 13.53 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 100% | | 100 |
| NAL13026-174MS | Ops Batch 106 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 106% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 79-01-6 | Trichloroethene | 5200 | | ug/L | 100 | 36.33 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 74-95-3 | Dibromomethane | 5300 | | ug/L | 200 | 32.20 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 106% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 78-87-5 | 1,2-Dichloropropane | 5300 | | ug/L | 100 | 18.17 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 106% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5100 | | ug/L | 100 | 25.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 500 | 74.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 96% | | 88 |
| NAL13026-174MS | Ops Batch 106 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5400 | | ug/L | 100 | 20.96 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 98% | | 480 |
| NAL13026-174MS | Ops Batch 106 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 92% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 591-78-6 | 2-Hexanone | 4500 | | ug/L | 200 | 26.49 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 85% | | 270 |
| NAL13026-174MS | Ops Batch 106 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 84% | | 81 |
| NAL13026-174MS | Ops Batch 106 | ORG | 108-90-7 | Chlorobenzene | 4400 | | ug/L | 100 | 27.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 86% | | 78 |
| NAL13026-174MS | Ops Batch 106 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4600 | | ug/L | 200 | 19.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 92% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | XYLMP | p&m-Xylene | 8600 | | ug/L | 200 | 26.14 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 10000 | 84% | | 180 |
| NAL13026-174MS | Ops Batch 106 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 86% | | 88 |
| NAL13026-174MS | Ops Batch 106 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 88% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 100% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 98-82-8 | Isopropylbenzene | 4400 | | ug/L | 200 | 20.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 86% | | 78 |
| NAL13026-174MS | Ops Batch 106 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 88% | | 91 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174MS | Ops Batch 106 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 106% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 98% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 88% | | 110 |
| NAL13026-174MS | Ops Batch 106 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 92% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 86% | | 180 |
| NAL13026-174MS | Ops Batch 106 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 90% | | 90 |
| NAL13026-174MS | Ops Batch 106 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 94% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 92% | | 420 |
| NAL13026-174MS | Ops Batch 106 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 98% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 100% | | 110 |
| NAL13026-174MS | Ops Batch 106 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 91% | | 140 |
| NAL13026-174MS | Ops Batch 106 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5200 | | ug/L | 500 | 159.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 104% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4800 | | ug/L | 500 | 27.63 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 93% | | 160 |
| NAL13026-174MS | Ops Batch 106 | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 87% | | 460 |
| NAL13026-174MS | Ops Batch 106 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 5000 | 94% | | |
| NAL13026-174MS | Ops Batch 106 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 50 | 102% | | |
| NAL13026-174MS | Ops Batch 106 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 50 | 98% | | |
| NAL13026-174MS | Ops Batch 106 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 50 | 94% | | |
| NAL13026-174MS | Ops Batch 106 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8099 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-71-8 | Dichlorodifluoromethane | 4400 | | ug/L | 500 | 29.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 88% | 5% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 74-87-3 | Chloromethane | 3400 | | ug/L | 500 | 43.07 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 68% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 76% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 74-83-9 | Bromomethane | 3400 | | ug/L | 500 | 50.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 68% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-00-3 | Chloroethane | 5500 | | ug/L | 500 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-69-4 | Trichlorofluoromethane | 4600 | | ug/L | 500 | 19.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 92% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-35-4 | 1,1-Dichloroethene | 4900 | | ug/L | 100 | 47.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 98% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-09-2 | Methylene chloride | 4900 | | ug/L | 500 | 26.46 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 98% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 67-64-1 | Acetone | 34000 | | ug/L | 1000 | 155.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | -20% | 0% | 35000 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 6500 | | ug/L | 100 | 55.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 130% | 17% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 1634-04-4 | MTBE | 6100 | | ug/L | 500 | 61.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 122% | 5% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 8% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5400 | | ug/L | 100 | 32.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 108% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 102% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 67-66-3 | Chloroform | 5500 | | ug/L | 200 | 41.37 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 112% | 7% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 78-93-3 | 2-Butanone | 22000 | | ug/L | 100 | 16.65 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 20% | 0% | 21000 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 114% | 7% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 71-43-2 | Benzene | 5300 | | ug/L | 100 | 13.53 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 104% | 4% | 100 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 108% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 112% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 104% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 104% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 98% | 2% | 88 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5200 | | ug/L | 100 | 20.96 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 94% | 4% | 480 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 106% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 127-18-4 | Tetrachloroethene | 4800 | | ug/L | 100 | 48.56 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 102% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 108% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 104% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 591-78-6 | 2-Hexanone | 4500 | | ug/L | 200 | 26.49 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 85% | 0% | 270 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 90% | 7% | 81 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 90% | 4% | 78 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 10000 | 89% | 6% | 180 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 90% | 4% | 88 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 92% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 75-25-2 | Bromoform | 5200 | | ug/L | 200 | 46.83 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 104% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 92% | 7% | 78 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 92% | 4% | 91 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-174MSD | Ops Batch 106 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5600 | | ug/L | 200 | 29.16 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 112% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 102% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 92% | 4% | 110 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 88% | 2% | 180 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 6% | 90 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 100% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 99-87-6 | p-Isopropltoluene | 5200 | | ug/L | 200 | 25.48 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 4% | 420 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5100 | | ug/L | 200 | 33.03 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 102% | 4% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5400 | | ug/L | 200 | 26.38 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 106% | 6% | 110 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 95% | 4% | 140 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5500 | | ug/L | 500 | 159.11 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 110% | 6% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 102% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5100 | | ug/L | 500 | 27.63 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 99% | 6% | 160 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 91-20-3 | Naphthalene | 5000 | | ug/L | 500 | 56.04 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 91% | 4% | 460 |
| NAL13026-174MSD | Ops Batch 106 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 5000 | 96% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 50 | 102% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 50 | 98% | 0% | 0 |
| NAL13026-174MSD | Ops Batch 106 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 50 | 92% | 2% | 0 |
| NAL13026-174MSD | Ops Batch 106 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/10/2013 | 5/10/2013 | 5/10/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8100 | 50 | 96% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177 | Ops Batch 109 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 67-64-1 | Acetone | 45000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8105 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 10000 | 811.80 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8105 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 370 | JX+ | ug/L | 500 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177 | Ops Batch 109 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 91-20-3 | Naphthalene | 280 | J | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | | | | |
| NAL13026-177 | Ops Batch 109 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | 50 | 104% | | |
| NAL13026-177 | Ops Batch 109 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | 50 | 106% | | |
| NAL13026-177 | Ops Batch 109 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | 50 | 92% | | |
| NAL13026-177 | Ops Batch 109 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8104 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 67-64-1 | Acetone | 86000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8110 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 78-93-3 | 2-Butanone | 54000 | D | ug/L | 10000 | 166.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8110 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 71-43-2 | Benzene | 17 | J | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1000 | X+ | ug/L | 500 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 591-78-6 | 2-Hexanone | 560 | | ug/L | 500 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 100-41-4 | Ethylbenzene | 54 | J | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | XYLMP | p&m-Xylene | 140 | J | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 95-47-6 | o-Xylene | 77 | J | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 100-42-5 | Styrene | 49 | J | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 54 | J | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 59 | J | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 420 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 1800 | | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 480 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 91-20-3 | Naphthalene | 650 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | | | | |
| NAL13026-178 | Ops Batch 110-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | 50 | 104% | | |
| NAL13026-178 | Ops Batch 110-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | 50 | 96% | | |
| NAL13026-178 | Ops Batch 110-ST T1 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | 50 | 92% | | |
| NAL13026-178 | Ops Batch 110-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8106 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 67-64-1 | Acetone | 90000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8111 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 78-93-3 | 2-Butanone | 55000 | D | ug/L | 10000 | 166.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8111 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 71-43-2 | Benzene | 42 | J | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1800 | X+ | ug/L | 500 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 591-78-6 | 2-Hexanone | 1000 | | ug/L | 500 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 100-41-4 | Ethylbenzene | 49 | J | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | XYLMP | p&m-Xylene | 130 | J | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 95-47-6 | o-Xylene | 70 | J | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 98-82-8 | Isopropylbenzene | 42 | J | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 103-65-1 | n-Propylbenzene | 55 | J | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 330 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | 39 | J | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 380 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 104-51-8 | n-Butylbenzene | 110 | J | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 91-20-3 | Naphthalene | 660 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | | | | |
| NAL13026-179 | Ops Batch 110-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | 50 | 104% | | |
| NAL13026-179 | Ops Batch 110-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | 50 | 102% | | |
| NAL13026-179 | Ops Batch 110-ST T2 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | 50 | 92% | | |
| NAL13026-179 | Ops Batch 110-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8107 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 67-64-1 | Acetone | 93000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8112 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 78-93-3 | 2-Butanone | 59000 | D | ug/L | 10000 | 166.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 71-43-2 | Benzene | 79 | J | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 108-88-3 | Toluene | 280 | | ug/L | 100 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2300 | X+ | ug/L | 500 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 591-78-6 | 2-Hexanone | 1300 | | ug/L | 500 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 100-41-4 | Ethylbenzene | 950 | | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | XYLMP | p&m-Xylene | 2400 | | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 95-47-6 | o-Xylene | 1200 | | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 820 | | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 640 | | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 1400 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 310 | | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 24000 | D | ug/L | 2000 | 254.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8112 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5600 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 104-51-8 | n-Butylbenzene | 950 | | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 91-20-3 | Naphthalene | 6100 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | | | | |
| NAL13026-180 | Ops Batch 110-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | 50 | 106% | | |
| NAL13026-180 | Ops Batch 110-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | 50 | 106% | | |
| NAL13026-180 | Ops Batch 110-ST T3 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | 50 | 90% | | |
| NAL13026-180 | Ops Batch 110-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 55 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8108 | 50 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 67-64-1 | Acetone | 92000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 78-93-3 | 2-Butanone | 57000 | D | ug/L | 10000 | 166.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 71-43-2 | Benzene | 22 | J | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 108-88-3 | Toluene | 56 | J | ug/L | 100 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1800 | X+ | ug/L | 500 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 591-78-6 | 2-Hexanone | 1100 | | ug/L | 500 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 100-41-4 | Ethylbenzene | 130 | | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 95-47-6 | o-Xylene | 220 | | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 100-42-5 | Styrene | 68 | J | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 180 | J | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 130 | J | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 300 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 1200 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | 94 | J | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 5600 | | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 1300 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 104-51-8 | n-Butylbenzene | 310 | J | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 91-20-3 | Naphthalene | 2000 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | | | | |
| NAL13026-181 | Ops Batch 110-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | 50 | 106% | | |
| NAL13026-181 | Ops Batch 110-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | 50 | 108% | | |
| NAL13026-181 | Ops Batch 110-ST T4 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | 50 | 92% | | |
| NAL13026-181 | Ops Batch 110-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8109 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-182 | Ops Batch 111 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 67-64-1 | Acetone | 57000 | D | ug/L | 10000 | 1556.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8115 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 78-93-3 | 2-Butanone | 33000 | D | ug/L | 10000 | 166.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8115 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 420 | JX+ | ug/L | 500 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 591-78-6 | 2-Hexanone | 290 | J | ug/L | 500 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-182 | Ops Batch 111 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 88 | J | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 99-87-6 | p-Isopropltoluene | 200 | J | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 104-51-8 | n-Butylbenzene | 50 | J | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 91-20-3 | Naphthalene | 310 | J | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | | | | |
| NAL13026-182 | Ops Batch 111 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | 50 | 106% | | |
| NAL13026-182 | Ops Batch 111 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | 50 | 104% | | |
| NAL13026-182 | Ops Batch 111 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | 50 | 90% | | |
| NAL13026-182 | Ops Batch 111 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8114 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113CCVA | J051113CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 37 | | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 74% | | |
| J051113CCVA | J051113CCVA | ORG | 74-87-3 | Chloromethane | 45 | | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 90% | | |
| J051113CCVA | J051113CCVA | ORG | 75-01-4 | Vinyl chloride | 36 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 72% | | |
| J051113CCVA | J051113CCVA | ORG | 74-83-9 | Bromomethane | 32 | | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 64% | | |
| J051113CCVA | J051113CCVA | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 106% | | |
| J051113CCVA | J051113CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 64 | | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 128% | | |
| J051113CCVA | J051113CCVA | ORG | 1634-04-4 | MTBE | 61 | | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 122% | | |
| J051113CCVA | J051113CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 112% | | |
| J051113CCVA | J051113CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 112% | | |
| J051113CCVA | J051113CCVA | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 106% | | |
| J051113CCVA | J051113CCVA | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 112% | | |
| J051113CCVA | J051113CCVA | ORG | 78-93-3 | 2-Butanone | 52 | | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 104% | | |
| J051113CCVA | J051113CCVA | ORG | 56-23-5 | Carbon tetrachloride | 57 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 114% | | |
| J051113CCVA | J051113CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 79-01-6 | Trichloroethene | 54 | | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 112% | | |
| J051113CCVA | J051113CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 102% | | |
| J051113CCVA | J051113CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 104% | | |
| J051113CCVA | J051113CCVA | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 100% | | |
| J051113CCVA | J051113CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 130% | | |
| J051113CCVA | J051113CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 104% | | |
| J051113CCVA | J051113CCVA | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 82% | | |
| J051113CCVA | J051113CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 98% | | |
| J051113CCVA | J051113CCVA | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 104% | | |
| J051113CCVA | J051113CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 100% | | |
| J051113CCVA | J051113CCVA | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 118% | | |
| J051113CCVA | J051113CCVA | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 86% | | |
| J051113CCVA | J051113CCVA | ORG | 108-90-7 | Chlorobenzene | 44 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 90% | | |
| J051113CCVA | J051113CCVA | ORG | XYLMP | p&m-Xylene | 84 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 100 | 84% | | |
| J051113CCVA | J051113CCVA | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 86% | | |
| J051113CCVA | J051113CCVA | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 86% | | |
| J051113CCVA | J051113CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113CCVA | J051113CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 102% | | |
| J051113CCVA | J051113CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |
| J051113CCVA | J051113CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 88% | | |
| J051113CCVA | J051113CCVA | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 92% | | |
| J051113CCVA | J051113CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |
| J051113CCVA | J051113CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 92% | | |
| J051113CCVA | J051113CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 100% | | |
| J051113CCVA | J051113CCVA | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 96% | | |
| J051113CCVA | J051113CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |
| J051113CCVA | J051113CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 108% | | |
| J051113CCVA | J051113CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 100% | | |
| J051113CCVA | J051113CCVA | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 84% | | |
| J051113CCVA | J051113CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |
| J051113CCVA | J051113CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 102% | | |
| J051113CCVA | J051113CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |
| J051113CCVA | J051113CCVA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 92% | | |
| J051113CCVA | J051113CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8102 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113MBKA | J051113MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113MBKA | J051113MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | | | | |
| J051113MBKA | J051113MBKA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | 50 | 106% | | |
| J051113MBKA | J051113MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | 50 | 106% | | |
| J051113MBKA | J051113MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | 50 | 94% | | |
| J051113MBKA | J051113MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8103 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113CCVB | J051113CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 39 | | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 78% | | |
| J051113CCVB | J051113CCVB | ORG | 74-87-3 | Chloromethane | 29 | | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 58% | | |
| J051113CCVB | J051113CCVB | ORG | 75-01-4 | Vinyl chloride | 38 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 76% | | |
| J051113CCVB | J051113CCVB | ORG | 74-83-9 | Bromomethane | 36 | | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 72% | | |
| J051113CCVB | J051113CCVB | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 94% | | |
| J051113CCVB | J051113CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 94% | | |
| J051113CCVB | J051113CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 75-09-2 | Methylene chloride | 54 | | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 108% | | |
| J051113CCVB | J051113CCVB | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 116% | | |
| J051113CCVB | J051113CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 114% | | |
| J051113CCVB | J051113CCVB | ORG | 1634-04-4 | MTBE | 57 | | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 114% | | |
| J051113CCVB | J051113CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 58 | | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 116% | | |
| J051113CCVB | J051113CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 74-97-5 | Bromochloromethane | 58 | | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 116% | | |
| J051113CCVB | J051113CCVB | ORG | 67-66-3 | Chloroform | 60 | | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 59 | | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 118% | | |
| J051113CCVB | J051113CCVB | ORG | 78-93-3 | 2-Butanone | 66 | | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 132% | | |
| J051113CCVB | J051113CCVB | ORG | 56-23-5 | Carbon tetrachloride | 62 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 124% | | |
| J051113CCVB | J051113CCVB | ORG | 71-43-2 | Benzene | 59 | | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 118% | | |
| J051113CCVB | J051113CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 60 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 79-01-6 | Trichloroethene | 60 | | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 74-95-3 | Dibromomethane | 60 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 60 | | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 120% | | |
| J051113CCVB | J051113CCVB | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 108% | | |
| J051113CCVB | J051113CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 108-88-3 | Toluene | 51 | | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 102% | | |
| J051113CCVB | J051113CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 130% | | |
| J051113CCVB | J051113CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 108% | | |
| J051113CCVB | J051113CCVB | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 100% | | |
| J051113CCVB | J051113CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 112% | | |
| J051113CCVB | J051113CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 110% | | |
| J051113CCVB | J051113CCVB | ORG | 591-78-6 | 2-Hexanone | 61 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 122% | | |
| J051113CCVB | J051113CCVB | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 88% | | |
| J051113CCVB | J051113CCVB | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 90% | | |
| J051113CCVB | J051113CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 92% | | |
| J051113CCVB | J051113CCVB | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 100 | 89% | | |
| J051113CCVB | J051113CCVB | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 90% | | |
| J051113CCVB | J051113CCVB | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 88% | | |
| J051113CCVB | J051113CCVB | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 90% | | |
| J051113CCVB | J051113CCVB | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113CCVB | J051113CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 110% | | |
| J051113CCVB | J051113CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 52 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 104% | | |
| J051113CCVB | J051113CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 92% | | |
| J051113CCVB | J051113CCVB | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 96% | | |
| J051113CCVB | J051113CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 90% | | |
| J051113CCVB | J051113CCVB | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 96% | | |
| J051113CCVB | J051113CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 100% | | |
| J051113CCVB | J051113CCVB | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 98% | | |
| J051113CCVB | J051113CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 100% | | |
| J051113CCVB | J051113CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 98% | | |
| J051113CCVB | J051113CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 106% | | |
| J051113CCVB | J051113CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 55 | | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 110% | | |
| J051113CCVB | J051113CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 104% | | |
| J051113CCVB | J051113CCVB | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 96% | | |
| J051113CCVB | J051113CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 100% | | |
| J051113CCVB | J051113CCVB | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 108% | | |
| J051113CCVB | J051113CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 102% | | |
| J051113CCVB | J051113CCVB | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 90% | | |
| J051113CCVB | J051113CCVB | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8116 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113MBKB | J051113MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113MBKB | J051113MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | | | | |
| J051113MBKB | J051113MBKB | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | 50 | 108% | | |
| J051113MBKB | J051113MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | 50 | 104% | | |
| J051113MBKB | J051113MBKB | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | 50 | 90% | | |
| J051113MBKB | J051113MBKB | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8117 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113ALCS | J051113ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 33 | | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 66% | | |
| J051113ALCS | J051113ALCS | ORG | 74-87-3 | Chloromethane | 30 | | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 60% | | |
| J051113ALCS | J051113ALCS | ORG | 75-01-4 | Vinyl chloride | 35 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 70% | | |
| J051113ALCS | J051113ALCS | ORG | 74-83-9 | Bromomethane | 39 | | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 78% | | |
| J051113ALCS | J051113ALCS | ORG | 75-00-3 | Chloroethane | 41 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 82% | | |
| J051113ALCS | J051113ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 96% | | |
| J051113ALCS | J051113ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 106% | | |
| J051113ALCS | J051113ALCS | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 112% | | |
| J051113ALCS | J051113ALCS | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 124% | | |
| J051113ALCS | J051113ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 1634-04-4 | MTBE | 55 | | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 44 | | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 88% | | |
| J051113ALCS | J051113ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 108% | | |
| J051113ALCS | J051113ALCS | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 106% | | |
| J051113ALCS | J051113ALCS | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 108% | | |
| J051113ALCS | J051113ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 112% | | |
| J051113ALCS | J051113ALCS | ORG | 78-93-3 | 2-Butanone | 61 | | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 122% | | |
| J051113ALCS | J051113ALCS | ORG | 56-23-5 | Carbon tetrachloride | 57 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 114% | | |
| J051113ALCS | J051113ALCS | ORG | 71-43-2 | Benzene | 53 | | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 106% | | |
| J051113ALCS | J051113ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 55 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 55 | | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 98% | | |
| J051113ALCS | J051113ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 98% | | |
| J051113ALCS | J051113ALCS | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 94% | | |
| J051113ALCS | J051113ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 118% | | |
| J051113ALCS | J051113ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 98% | | |
| J051113ALCS | J051113ALCS | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 100% | | |
| J051113ALCS | J051113ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 98% | | |
| J051113ALCS | J051113ALCS | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 104% | | |
| J051113ALCS | J051113ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 98% | | |
| J051113ALCS | J051113ALCS | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 110% | | |
| J051113ALCS | J051113ALCS | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 84% | | |
| J051113ALCS | J051113ALCS | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 86% | | |
| J051113ALCS | J051113ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | ORG | XYLMP | p&m-Xylene | 83 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 100 | 83% | | |
| J051113ALCS | J051113ALCS | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 86% | | |
| J051113ALCS | J051113ALCS | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 84% | | |
| J051113ALCS | J051113ALCS | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 96% | | |
| J051113ALCS | J051113ALCS | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 86% | | |
| J051113ALCS | J051113ALCS | ORG | 103-65-1 | n-Propylbenzene | 43 | | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 86% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113ALCS | J051113ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 94% | | |
| J051113ALCS | J051113ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 92% | | |
| J051113ALCS | J051113ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 82% | | |
| J051113ALCS | J051113ALCS | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 88% | | |
| J051113ALCS | J051113ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 84% | | |
| J051113ALCS | J051113ALCS | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 88% | | |
| J051113ALCS | J051113ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | ORG | 99-87-6 | p-Isopropltoluene | 44 | | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 88% | | |
| J051113ALCS | J051113ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 86% | | |
| J051113ALCS | J051113ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 92% | | |
| J051113ALCS | J051113ALCS | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 96% | | |
| J051113ALCS | J051113ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 88% | | |
| J051113ALCS | J051113ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 108% | | |
| J051113ALCS | J051113ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 100% | | |
| J051113ALCS | J051113ALCS | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 90% | | |
| J051113ALCS | J051113ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8118 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113ALCD | J051113ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 33 | | ug/L | 5 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 66% | 0% | |
| J051113ALCD | J051113ALCD | ORG | 74-87-3 | Chloromethane | 33 | | ug/L | 5 | 0.43 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 66% | 10% | |
| J051113ALCD | J051113ALCD | ORG | 75-01-4 | Vinyl chloride | 35 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 70% | 0% | |
| J051113ALCD | J051113ALCD | ORG | 74-83-9 | Bromomethane | 37 | | ug/L | 5 | 0.50 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 74% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 106% | 26% | |
| J051113ALCD | J051113ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 104% | 8% | |
| J051113ALCD | J051113ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 108% | 2% | |
| J051113ALCD | J051113ALCD | ORG | 75-09-2 | Methylene chloride | 60 | | ug/L | 5 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 124% | 0% | |
| J051113ALCD | J051113ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 1634-04-4 | MTBE | 60 | | ug/L | 5 | 0.61 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 98% | 11% | |
| J051113ALCD | J051113ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 114% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 112% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 67-66-3 | Chloroform | 59 | | ug/L | 2 | 0.41 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 118% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 59 | | ug/L | 1 | 0.16 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 118% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 78-93-3 | 2-Butanone | 65 | | ug/L | 1 | 0.17 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 130% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 56-23-5 | Carbon tetrachloride | 60 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 71-43-2 | Benzene | 56 | | ug/L | 1 | 0.14 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 112% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 60 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 79-01-6 | Trichloroethene | 60 | | ug/L | 1 | 0.36 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 74-95-3 | Dibromomethane | 60 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 120% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 59 | | ug/L | 1 | 0.18 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 118% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 102% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 102% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 98% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 1 | 0.21 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 122% | 3% | |
| J051113ALCD | J051113ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 104% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 127-18-4 | Tetrachloroethene | 55 | | ug/L | 1 | 0.49 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 110% | 10% | |
| J051113ALCD | J051113ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 104% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 108% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 106% | 8% | |
| J051113ALCD | J051113ALCD | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 118% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 90% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 90% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 94% | 4% | |
| J051113ALCD | J051113ALCD | ORG | XYLMP | p&m-Xylene | 87 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 100 | 87% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 88% | 2% | |
| J051113ALCD | J051113ALCD | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 88% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 104% | 8% | |
| J051113ALCD | J051113ALCD | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 90% | 5% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051113ALCD | J051113ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 104% | 10% | |
| J051113ALCD | J051113ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 100% | 8% | |
| J051113ALCD | J051113ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 90% | 9% | |
| J051113ALCD | J051113ALCD | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 88% | 5% | |
| J051113ALCD | J051113ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 94% | 7% | |
| J051113ALCD | J051113ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 96% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 88% | 2% | |
| J051113ALCD | J051113ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 100% | 8% | |
| J051113ALCD | J051113ALCD | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 2% | |
| J051113ALCD | J051113ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 100% | 11% | |
| J051113ALCD | J051113ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 102% | 6% | |
| J051113ALCD | J051113ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 94% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 4% | |
| J051113ALCD | J051113ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 92% | 2% | |
| J051113ALCD | J051113ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 106% | 2% | |
| J051113ALCD | J051113ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 102% | 2% | |
| J051113ALCD | J051113ALCD | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 88% | 2% | |
| J051113ALCD | J051113ALCD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/11/2013 | 5/11/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8119 | 50 | 94% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177MS | Ops Batch 109 | ORG | 75-71-8 | Dichlorodifluoromethane | 3300 | | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 66% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 74-87-3 | Chloromethane | 4400 | | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 88% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 74% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 74-83-9 | Bromomethane | 3800 | | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 76% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-00-3 | Chloroethane | 5700 | | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 114% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-69-4 | Trichlorofluoromethane | 5200 | | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 104% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-35-4 | 1,1-Dichloroethene | 5800 | | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 116% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-09-2 | Methylene chloride | 6100 | | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 122% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 67-64-1 | Acetone | 47000 | | ug/L | 1000 | 155.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 40% | | 45000 |
| NAL13026-177MS | Ops Batch 109 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5700 | | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 114% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 1634-04-4 | MTBE | 5900 | | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 118% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-34-3 | 1,1-Dichloroethane | 4900 | | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5800 | | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 116% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 74-97-5 | Bromochloromethane | 5700 | | ug/L | 1000 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 114% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 67-66-3 | Chloroform | 5800 | | ug/L | 200 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 116% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5900 | | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 118% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 0% | | 26000 |
| NAL13026-177MS | Ops Batch 109 | ORG | 56-23-5 | Carbon tetrachloride | 6000 | | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 120% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 71-43-2 | Benzene | 56000 | | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 1120% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 107-06-2 | 1,2-Dichloroethane | 5900 | | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 118% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 79-01-6 | Trichloroethene | 6000 | | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 120% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 74-95-3 | Dibromomethane | 6000 | | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 120% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 78-87-5 | 1,2-Dichloropropane | 5900 | | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 118% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 104% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 104% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 108-88-3 | Toluene | 5100 | | ug/L | 500 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 102% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5700 | | ug/L | 100 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 107% | | 370 |
| NAL13026-177MS | Ops Batch 109 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 106% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 127-18-4 | Tetrachloroethene | 5600 | | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 112% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5400 | | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 108% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 124-48-1 | Dibromochloromethane | 5600 | | ug/L | 500 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 112% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 106-93-4 | 1,2-Dibromoethane | 5600 | | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 112% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 72% | | 280 |
| NAL13026-177MS | Ops Batch 109 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 92% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 92% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4900 | | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 10000 | 91% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 90% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 96% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 110% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 96% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177MS | Ops Batch 109 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 102% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 94% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 98-06-6 | tert-Butylbenzene | 4700 | | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 94% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 94% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4900 | | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 100% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 100% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 102% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 96% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 108% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 102% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 98% | | |
| NAL13026-177MS | Ops Batch 109 | ORG | 91-20-3 | Naphthalene | 5400 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 102% | | 280 |
| NAL13026-177MS | Ops Batch 109 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5000 | | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 5000 | 100% | | |
| NAL13026-177MS | Ops Batch 109 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 50 | 106% | | |
| NAL13026-177MS | Ops Batch 109 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 50 | 106% | | |
| NAL13026-177MS | Ops Batch 109 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 50 | 92% | | |
| NAL13026-177MS | Ops Batch 109 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8120 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-71-8 | Dichlorodifluoromethane | 3500 | | ug/L | 500 | 29.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 70% | 6% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 74-87-3 | Chloromethane | 4200 | | ug/L | 500 | 43.07 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 84% | 5% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 76% | 3% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 74-83-9 | Bromomethane | 3800 | | ug/L | 500 | 50.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 76% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-00-3 | Chloroethane | 4900 | | ug/L | 500 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 15% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-69-4 | Trichlorofluoromethane | 5200 | | ug/L | 500 | 19.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 104% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-35-4 | 1,1-Dichloroethene | 5500 | | ug/L | 100 | 47.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 110% | 5% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 114% | 7% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 67-64-1 | Acetone | 46000 | | ug/L | 1000 | 155.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 20% | 2% | 45000 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 110% | 4% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 1634-04-4 | MTBE | 5900 | | ug/L | 500 | 61.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 118% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-34-3 | 1,1-Dichloroethane | 4600 | | ug/L | 100 | 52.66 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 92% | 6% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 112% | 4% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 74-97-5 | Bromochloromethane | 5700 | | ug/L | 1000 | 81.18 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 114% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 67-66-3 | Chloroform | 5700 | | ug/L | 200 | 41.37 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 114% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 116% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 78-93-3 | 2-Butanone | 25000 | | ug/L | 100 | 16.65 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | -20% | 4% | 26000 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 56-23-5 | Carbon tetrachloride | 5900 | | ug/L | 100 | 27.64 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 118% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 71-43-2 | Benzene | 5600 | | ug/L | 100 | 13.53 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 112% | 164% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 107-06-2 | 1,2-Dichloroethane | 6000 | | ug/L | 100 | 20.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 120% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 79-01-6 | Trichloroethene | 5900 | | ug/L | 100 | 36.33 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 118% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 74-95-3 | Dibromomethane | 6000 | | ug/L | 200 | 32.20 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 120% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 78-87-5 | 1,2-Dichloropropane | 6100 | | ug/L | 100 | 18.17 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 122% | 3% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-27-4 | Bromodichloromethane | 5400 | | ug/L | 200 | 11.58 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 108% | 4% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 104% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 100% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5400 | | ug/L | 100 | 20.96 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 101% | 5% | 370 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5200 | | ug/L | 100 | 31.15 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 104% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 127-18-4 | Tetrachloroethene | 5500 | | ug/L | 100 | 48.56 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 110% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5500 | | ug/L | 100 | 34.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 110% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 124-48-1 | Dibromochloromethane | 5700 | | ug/L | 500 | 68.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 114% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 106-93-4 | 1,2-Dibromoethane | 5600 | | ug/L | 200 | 29.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 112% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 72% | 0% | 280 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 92% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 108-90-7 | Chlorobenzene | 4700 | | ug/L | 100 | 27.52 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 94% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5000 | | ug/L | 200 | 19.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 100% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | XYLMP | p&m-Xylene | 9000 | | ug/L | 200 | 26.14 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 10000 | 90% | 1% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 92% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 92% | 4% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 110% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 94% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 94% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-177MSD | Ops Batch 109 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 102% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5000 | | ug/L | 200 | 29.47 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 100% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 94% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 96% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 92% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4800 | | ug/L | 200 | 22.21 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 96% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 99-87-6 | p-Isopropltoluene | 4900 | | ug/L | 200 | 25.48 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4800 | | ug/L | 200 | 33.03 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 96% | 4% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 102% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 96% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5300 | | ug/L | 500 | 159.11 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 106% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 102% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 4% | 280 |
| NAL13026-177MSD | Ops Batch 109 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 5000 | 98% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 50 | 108% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 50 | 108% | 2% | 0 |
| NAL13026-177MSD | Ops Batch 109 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 50 | 92% | 0% | 0 |
| NAL13026-177MSD | Ops Batch 109 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/11/2013 | 5/11/2013 | 5/11/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8121 | 50 | 94% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 67-64-1 | Acetone | 51000 | D | ug/L | 10000 | 1556.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8127 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 78-93-3 | 2-Butanone | 27000 | D | ug/L | 10000 | 811.80 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8127 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 56-23-5 | Carbon tetrachloride | | UX+ | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 180 | JX+ | ug/L | 500 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 591-78-6 | 2-Hexanone | 170 | J | ug/L | 500 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | XYLMP | p&m-Xylene | 38 | J | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183 | Ops Batch 112-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 33 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 77 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 99-87-6 | p-Isopropltoluene | 90 | J | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 104-51-8 | n-Butylbenzene | 54 | J | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 91-20-3 | Naphthalene | 230 | J | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | | | | |
| NAL13026-183 | Ops Batch 112-MSD | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | 50 | 110% | | |
| NAL13026-183 | Ops Batch 112-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | 50 | 98% | | |
| NAL13026-183 | Ops Batch 112-MSD | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | 50 | 88% | | |
| NAL13026-183 | Ops Batch 112-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8125 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-184 | Ops Batch 113 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 67-64-1 | Acetone | 39000 | D | ug/L | 10000 | 1556.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8128 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 78-93-3 | 2-Butanone | 19000 | D | ug/L | 10000 | 166.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8128 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 56-23-5 | Carbon tetrachloride | | UX+ | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 160 | JX+ | ug/L | 500 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 591-78-6 | 2-Hexanone | 210 | J | ug/L | 500 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | XYLMP | p&m-Xylene | 54 | J | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 95-47-6 | o-Xylene | 19 | J | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 98-82-8 | Isopropylbenzene | 26 | J | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 103-65-1 | n-Propylbenzene | 37 | J | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-184 | Ops Batch 113 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 135-98-8 | sec-Butylbenzene | 31 | J | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 99-87-6 | p-Isopropltoluene | 310 | | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 104-51-8 | n-Butylbenzene | 77 | J | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 91-20-3 | Naphthalene | 330 | J | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | | | | |
| NAL13026-184 | Ops Batch 113 | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | 50 | 110% | | |
| NAL13026-184 | Ops Batch 113 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | 50 | 106% | | |
| NAL13026-184 | Ops Batch 113 | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | 50 | 86% | | |
| NAL13026-184 | Ops Batch 113 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8126 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 67-64-1 | Acetone | 53000 | DX+ | ug/L | 1000 | 155.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8137 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | UX+ | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 74-97-5 | Bromochloromethane | | UX+ | ug/L | 200 | 81.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 67-66-3 | Chloroform | | UX+ | ug/L | 100 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | UX+ | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 78-93-3 | 2-Butanone | 28000 | DX+ | ug/L | 10000 | 166.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8137 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 56-23-5 | Carbon tetrachloride | | UX+ | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | UX+ | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 79-01-6 | Trichloroethene | | UX+ | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 74-95-3 | Dibromomethane | | UX+ | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | UX+ | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 210 | JX+ | ug/L | 500 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | XYLMP | p&m-Xylene | 39 | J | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-185 | Ops Batch 114-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 74 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 99-87-6 | p-Isopropltoluene | 48 | J | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 91-20-3 | Naphthalene | 220 | J | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | | | | |
| NAL13026-185 | Ops Batch 114-MSD | STD | 1868-53-7 | Dibromofluoromethane | 58 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | 50 | 116% | | |
| NAL13026-185 | Ops Batch 114-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | 50 | 106% | | |
| NAL13026-185 | Ops Batch 114-MSD | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | 50 | 84% | | |
| NAL13026-185 | Ops Batch 114-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8136 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-186 | Ops Batch 115 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 67-64-1 | Acetone | 55000 | DX+ | ug/L | 1000 | 155.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | UX+ | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 1634-04-4 | MTBE | | UX+ | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-34-3 | 1,1-Dichloroethane | | UX+ | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | UX+ | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 74-97-5 | Bromochloromethane | | UX+ | ug/L | 200 | 81.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 67-66-3 | Chloroform | | UX+ | ug/L | 100 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | UX+ | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 78-93-3 | 2-Butanone | 30000 | DX+ | ug/L | 1000 | 16.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 56-23-5 | Carbon tetrachloride | | UX+ | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 71-43-2 | Benzene | 66 | J | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 107-06-2 | 1,2-Dichloroethane | | UX+ | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 79-01-6 | Trichloroethene | | UX+ | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 74-95-3 | Dibromomethane | | UX+ | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 78-87-5 | 1,2-Dichloropropane | | UX+ | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 450 | JX+ | ug/L | 500 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 591-78-6 | 2-Hexanone | 230 | J | ug/L | 500 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 100-41-4 | Ethylbenzene | 35 | J | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | XYLMP | p&m-Xylene | 94 | J | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 95-47-6 | o-Xylene | 43 | J | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 98-82-8 | Isopropylbenzene | 33 | J | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 103-65-1 | n-Propylbenzene | 43 | J | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-186 | Ops Batch 115 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 65 | J | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 240 | | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 99-87-6 | p-Isopropltoluene | 1000 | | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 240 | | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 104-51-8 | n-Butylbenzene | 82 | J | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 91-20-3 | Naphthalene | 470 | J | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | | | | |
| NAL13026-186 | Ops Batch 115 | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | 50 | 114% | | |
| NAL13026-186 | Ops Batch 115 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | 50 | 100% | | |
| NAL13026-186 | Ops Batch 115 | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | 50 | 84% | | |
| NAL13026-186 | Ops Batch 115 | STD | 460-00-4 | Bromofluorobenzene | 44 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8138 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213CCVA | J051213CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 31 | | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 62% | | |
| J051213CCVA | J051213CCVA | ORG | 74-87-3 | Chloromethane | 45 | | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 75-01-4 | Vinyl chloride | 37 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 74% | | |
| J051213CCVA | J051213CCVA | ORG | 74-83-9 | Bromomethane | 37 | | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 74% | | |
| J051213CCVA | J051213CCVA | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 94% | | |
| J051213CCVA | J051213CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 98% | | |
| J051213CCVA | J051213CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 57 | | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 114% | | |
| J051213CCVA | J051213CCVA | ORG | 75-09-2 | Methylene chloride | 59 | | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 118% | | |
| J051213CCVA | J051213CCVA | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 120% | | |
| J051213CCVA | J051213CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 120% | | |
| J051213CCVA | J051213CCVA | ORG | 1634-04-4 | MTBE | 55 | | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 110% | | |
| J051213CCVA | J051213CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 100% | | |
| J051213CCVA | J051213CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 110% | | |
| J051213CCVA | J051213CCVA | ORG | 67-66-3 | Chloroform | 58 | | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 60 | | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 120% | | |
| J051213CCVA | J051213CCVA | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 112% | | |
| J051213CCVA | J051213CCVA | ORG | 56-23-5 | Carbon tetrachloride | 63 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 126% | | |
| J051213CCVA | J051213CCVA | ORG | 71-43-2 | Benzene | 58 | | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 79-01-6 | Trichloroethene | 60 | | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 120% | | |
| J051213CCVA | J051213CCVA | ORG | 74-95-3 | Dibromomethane | 58 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 59 | | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 118% | | |
| J051213CCVA | J051213CCVA | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 108% | | |
| J051213CCVA | J051213CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 110% | | |
| J051213CCVA | J051213CCVA | ORG | 108-88-3 | Toluene | 53 | | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 106% | | |
| J051213CCVA | J051213CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 130% | | |
| J051213CCVA | J051213CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 110% | | |
| J051213CCVA | J051213CCVA | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 94% | | |
| J051213CCVA | J051213CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 104% | | |
| J051213CCVA | J051213CCVA | ORG | 124-48-1 | Dibromochloromethane | 58 | | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 106% | | |
| J051213CCVA | J051213CCVA | ORG | 591-78-6 | 2-Hexanone | 58 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 94% | | |
| J051213CCVA | J051213CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 96% | | |
| J051213CCVA | J051213CCVA | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 100 | 89% | | |
| J051213CCVA | J051213CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 106% | | |
| J051213CCVA | J051213CCVA | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 94% | | |
| J051213CCVA | J051213CCVA | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213CCVA | J051213CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 98% | | |
| J051213CCVA | J051213CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |
| J051213CCVA | J051213CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |
| J051213CCVA | J051213CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 96% | | |
| J051213CCVA | J051213CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |
| J051213CCVA | J051213CCVA | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 98% | | |
| J051213CCVA | J051213CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 100% | | |
| J051213CCVA | J051213CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 98% | | |
| J051213CCVA | J051213CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 96% | | |
| J051213CCVA | J051213CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 104% | | |
| J051213CCVA | J051213CCVA | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 96% | | |
| J051213CCVA | J051213CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 58 | | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 116% | | |
| J051213CCVA | J051213CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 102% | | |
| J051213CCVA | J051213CCVA | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 100% | | |
| J051213CCVA | J051213CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 102% | | |
| J051213CCVA | J051213CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |
| J051213CCVA | J051213CCVA | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 90% | | |
| J051213CCVA | J051213CCVA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8123 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213MBKA | J051213MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213MBKA | J051213MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | | | | |
| J051213MBKA | J051213MBKA | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | 50 | 110% | | |
| J051213MBKA | J051213MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | 50 | 106% | | |
| J051213MBKA | J051213MBKA | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | 50 | 88% | | |
| J051213MBKA | J051213MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8124 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213CCVB | J051213CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 29 | | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 58% | | |
| J051213CCVB | J051213CCVB | ORG | 74-87-3 | Chloromethane | 34 | | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 68% | | |
| J051213CCVB | J051213CCVB | ORG | 75-01-4 | Vinyl chloride | 28 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 56% | | |
| J051213CCVB | J051213CCVB | ORG | 74-83-9 | Bromomethane | 40 | | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 80% | | |
| J051213CCVB | J051213CCVB | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 96% | | |
| J051213CCVB | J051213CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 90% | | |
| J051213CCVB | J051213CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 106% | | |
| J051213CCVB | J051213CCVB | ORG | 75-09-2 | Methylene chloride | 58 | | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 116% | | |
| J051213CCVB | J051213CCVB | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 124% | | |
| J051213CCVB | J051213CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 122% | | |
| J051213CCVB | J051213CCVB | ORG | 1634-04-4 | MTBE | 68 | | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 136% | | |
| J051213CCVB | J051213CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 61 | | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 122% | | |
| J051213CCVB | J051213CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 62 | | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 124% | | |
| J051213CCVB | J051213CCVB | ORG | 74-97-5 | Bromochloromethane | 62 | | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 124% | | |
| J051213CCVB | J051213CCVB | ORG | 67-66-3 | Chloroform | 63 | | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 126% | | |
| J051213CCVB | J051213CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 64 | | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 128% | | |
| J051213CCVB | J051213CCVB | ORG | 78-93-3 | 2-Butanone | 69 | | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 138% | | |
| J051213CCVB | J051213CCVB | ORG | 56-23-5 | Carbon tetrachloride | 65 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 130% | | |
| J051213CCVB | J051213CCVB | ORG | 71-43-2 | Benzene | 59 | | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 118% | | |
| J051213CCVB | J051213CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 65 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 130% | | |
| J051213CCVB | J051213CCVB | ORG | 79-01-6 | Trichloroethene | 63 | | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 126% | | |
| J051213CCVB | J051213CCVB | ORG | 74-95-3 | Dibromomethane | 65 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 130% | | |
| J051213CCVB | J051213CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 63 | | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 126% | | |
| J051213CCVB | J051213CCVB | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 106% | | |
| J051213CCVB | J051213CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 106% | | |
| J051213CCVB | J051213CCVB | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 98% | | |
| J051213CCVB | J051213CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 122% | | |
| J051213CCVB | J051213CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 110% | | |
| J051213CCVB | J051213CCVB | ORG | 127-18-4 | Tetrachloroethene | 57 | | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 114% | | |
| J051213CCVB | J051213CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 54 | | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 108% | | |
| J051213CCVB | J051213CCVB | ORG | 124-48-1 | Dibromochloromethane | 58 | | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 116% | | |
| J051213CCVB | J051213CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 56 | | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 112% | | |
| J051213CCVB | J051213CCVB | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 118% | | |
| J051213CCVB | J051213CCVB | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 82% | | |
| J051213CCVB | J051213CCVB | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 86% | | |
| J051213CCVB | J051213CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 92% | | |
| J051213CCVB | J051213CCVB | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 100 | 82% | | |
| J051213CCVB | J051213CCVB | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 82% | | |
| J051213CCVB | J051213CCVB | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 84% | | |
| J051213CCVB | J051213CCVB | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 106% | | |
| J051213CCVB | J051213CCVB | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 86% | | |
| J051213CCVB | J051213CCVB | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 84% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213CCVB | J051213CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 108% | | |
| J051213CCVB | J051213CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 100% | | |
| J051213CCVB | J051213CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 86% | | |
| J051213CCVB | J051213CCVB | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 90% | | |
| J051213CCVB | J051213CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 86% | | |
| J051213CCVB | J051213CCVB | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 90% | | |
| J051213CCVB | J051213CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 96% | | |
| J051213CCVB | J051213CCVB | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 92% | | |
| J051213CCVB | J051213CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 98% | | |
| J051213CCVB | J051213CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 104% | | |
| J051213CCVB | J051213CCVB | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 90% | | |
| J051213CCVB | J051213CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 108% | | |
| J051213CCVB | J051213CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 112% | | |
| J051213CCVB | J051213CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 100% | | |
| J051213CCVB | J051213CCVB | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 96% | | |
| J051213CCVB | J051213CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 98% | | |
| J051213CCVB | J051213CCVB | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 114% | | |
| J051213CCVB | J051213CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 104% | | |
| J051213CCVB | J051213CCVB | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 86% | | |
| J051213CCVB | J051213CCVB | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8134 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213MBKB | J051213MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213MBKB | J051213MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | | | | |
| J051213MBKB | J051213MBKB | STD | 1868-53-7 | Dibromofluoromethane | 58 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | 50 | 116% | | |
| J051213MBKB | J051213MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 59 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | 50 | 118% | | |
| J051213MBKB | J051213MBKB | STD | 2037-26-5 | Toluene d8 | 41 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | 50 | 82% | | |
| J051213MBKB | J051213MBKB | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8135 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213ALCS | J051213ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 29 | | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 58% | | |
| J051213ALCS | J051213ALCS | ORG | 74-87-3 | Chloromethane | 31 | | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 62% | | |
| J051213ALCS | J051213ALCS | ORG | 75-01-4 | Vinyl chloride | 35 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 70% | | |
| J051213ALCS | J051213ALCS | ORG | 74-83-9 | Bromomethane | 44 | | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 88% | | |
| J051213ALCS | J051213ALCS | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 104% | | |
| J051213ALCS | J051213ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 106% | | |
| J051213ALCS | J051213ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 64 | | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 128% | | |
| J051213ALCS | J051213ALCS | ORG | 75-09-2 | Methylene chloride | 67 | | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 134% | | |
| J051213ALCS | J051213ALCS | ORG | 67-64-1 | Acetone | 64 | | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 128% | | |
| J051213ALCS | J051213ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 66 | | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 132% | | |
| J051213ALCS | J051213ALCS | ORG | 1634-04-4 | MTBE | 63 | | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 126% | | |
| J051213ALCS | J051213ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 110% | | |
| J051213ALCS | J051213ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 65 | | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 130% | | |
| J051213ALCS | J051213ALCS | ORG | 74-97-5 | Bromochloromethane | 64 | | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 128% | | |
| J051213ALCS | J051213ALCS | ORG | 67-66-3 | Chloroform | 64 | | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 128% | | |
| J051213ALCS | J051213ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 67 | | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 134% | | |
| J051213ALCS | J051213ALCS | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 112% | | |
| J051213ALCS | J051213ALCS | ORG | 56-23-5 | Carbon tetrachloride | 69 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 138% | | |
| J051213ALCS | J051213ALCS | ORG | 71-43-2 | Benzene | 63 | | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 126% | | |
| J051213ALCS | J051213ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 66 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 132% | | |
| J051213ALCS | J051213ALCS | ORG | 79-01-6 | Trichloroethene | 66 | | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 132% | | |
| J051213ALCS | J051213ALCS | ORG | 74-95-3 | Dibromomethane | 65 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 130% | | |
| J051213ALCS | J051213ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 65 | | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 130% | | |
| J051213ALCS | J051213ALCS | ORG | 75-27-4 | Bromodichloromethane | 55 | | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 110% | | |
| J051213ALCS | J051213ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 110% | | |
| J051213ALCS | J051213ALCS | ORG | 108-88-3 | Toluene | 52 | | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 104% | | |
| J051213ALCS | J051213ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 114% | | |
| J051213ALCS | J051213ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 110% | | |
| J051213ALCS | J051213ALCS | ORG | 127-18-4 | Tetrachloroethene | 51 | | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 102% | | |
| J051213ALCS | J051213ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 106% | | |
| J051213ALCS | J051213ALCS | ORG | 124-48-1 | Dibromochloromethane | 57 | | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 114% | | |
| J051213ALCS | J051213ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 110% | | |
| J051213ALCS | J051213ALCS | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 104% | | |
| J051213ALCS | J051213ALCS | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 92% | | |
| J051213ALCS | J051213ALCS | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 92% | | |
| J051213ALCS | J051213ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 100 | 91% | | |
| J051213ALCS | J051213ALCS | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 92% | | |
| J051213ALCS | J051213ALCS | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 94% | | |
| J051213ALCS | J051213ALCS | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 106% | | |
| J051213ALCS | J051213ALCS | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213ALCS | J051213ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 102% | | |
| J051213ALCS | J051213ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 94% | | |
| J051213ALCS | J051213ALCS | ORG | 98-06-6 | tert-Butylbenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 92% | | |
| J051213ALCS | J051213ALCS | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 102% | | |
| J051213ALCS | J051213ALCS | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 48 | | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 108% | | |
| J051213ALCS | J051213ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 98% | | |
| J051213ALCS | J051213ALCS | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 92% | | |
| J051213ALCS | J051213ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 96% | | |
| J051213ALCS | J051213ALCS | STD | 1868-53-7 | Dibromofluoromethane | 56 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 112% | | |
| J051213ALCS | J051213ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 102% | | |
| J051213ALCS | J051213ALCS | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 88% | | |
| J051213ALCS | J051213ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8129 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213ALCD | J051213ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 27 | | ug/L | 5 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 54% | 7% | |
| J051213ALCD | J051213ALCD | ORG | 74-87-3 | Chloromethane | 38 | | ug/L | 5 | 0.43 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 76% | 20% | |
| J051213ALCD | J051213ALCD | ORG | 75-01-4 | Vinyl chloride | 34 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 68% | 3% | |
| J051213ALCD | J051213ALCD | ORG | 74-83-9 | Bromomethane | 39 | | ug/L | 5 | 0.50 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 78% | 12% | |
| J051213ALCD | J051213ALCD | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 104% | 0% | |
| J051213ALCD | J051213ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 46 | | ug/L | 5 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 92% | 14% | |
| J051213ALCD | J051213ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 106% | 19% | |
| J051213ALCD | J051213ALCD | ORG | 75-09-2 | Methylene chloride | 59 | | ug/L | 5 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 118% | 13% | |
| J051213ALCD | J051213ALCD | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 116% | 10% | |
| J051213ALCD | J051213ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 122% | 8% | |
| J051213ALCD | J051213ALCD | ORG | 1634-04-4 | MTBE | 60 | | ug/L | 5 | 0.61 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 120% | 5% | |
| J051213ALCD | J051213ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 60 | | ug/L | 1 | 0.53 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 120% | 9% | |
| J051213ALCD | J051213ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 122% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 74-97-5 | Bromochloromethane | 60 | | ug/L | 10 | 0.81 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 120% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 67-66-3 | Chloroform | 61 | | ug/L | 2 | 0.41 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 122% | 5% | |
| J051213ALCD | J051213ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 63 | | ug/L | 1 | 0.16 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 126% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 110% | 2% | |
| J051213ALCD | J051213ALCD | ORG | 56-23-5 | Carbon tetrachloride | 65 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 130% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 71-43-2 | Benzene | 60 | | ug/L | 1 | 0.14 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 120% | 5% | |
| J051213ALCD | J051213ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 63 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 126% | 5% | |
| J051213ALCD | J051213ALCD | ORG | 79-01-6 | Trichloroethene | 62 | | ug/L | 1 | 0.36 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 124% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 74-95-3 | Dibromomethane | 63 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 126% | 3% | |
| J051213ALCD | J051213ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 61 | | ug/L | 1 | 0.18 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 122% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 102% | 8% | |
| J051213ALCD | J051213ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 102% | 8% | |
| J051213ALCD | J051213ALCD | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 96% | 8% | |
| J051213ALCD | J051213ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 1 | 0.21 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 114% | 0% | |
| J051213ALCD | J051213ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 104% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 127-18-4 | Tetrachloroethene | 49 | | ug/L | 1 | 0.49 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 98% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 51 | | ug/L | 1 | 0.34 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 102% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 124-48-1 | Dibromochloromethane | 55 | | ug/L | 5 | 0.69 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 110% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 106% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 108% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 82% | 11% | |
| J051213ALCD | J051213ALCD | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 82% | 11% | |
| J051213ALCD | J051213ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 88% | 11% | |
| J051213ALCD | J051213ALCD | ORG | XYLMP | p&m-Xylene | 81 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 100 | 81% | 12% | |
| J051213ALCD | J051213ALCD | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 82% | 11% | |
| J051213ALCD | J051213ALCD | ORG | 100-42-5 | Styrene | 41 | | ug/L | 1 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 82% | 14% | |
| J051213ALCD | J051213ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 100% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 13% | |
| J051213ALCD | J051213ALCD | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 11% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051213ALCD | J051213ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 100% | 2% | |
| J051213ALCD | J051213ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 92% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 11% | |
| J051213ALCD | J051213ALCD | ORG | 98-06-6 | tert-Butylbenzene | 42 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 15% | |
| J051213ALCD | J051213ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 9% | |
| J051213ALCD | J051213ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 90% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 92% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 90% | 9% | |
| J051213ALCD | J051213ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 92% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 98% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 90% | 6% | |
| J051213ALCD | J051213ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 94% | 2% | |
| J051213ALCD | J051213ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 112% | 4% | |
| J051213ALCD | J051213ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 100% | 2% | |
| J051213ALCD | J051213ALCD | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 92% | 0% | |
| J051213ALCD | J051213ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 94% | 2% | |
| J051213ALCD | J051213ALCD | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 114% | 2% | |
| J051213ALCD | J051213ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 104% | 2% | |
| J051213ALCD | J051213ALCD | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 84% | 5% | |
| J051213ALCD | J051213ALCD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/12/2013 | 5/12/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8130 | 50 | 90% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3200 | | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 64% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 74-87-3 | Chloromethane | 4100 | | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 82% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-01-4 | Vinyl chloride | 3500 | | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 70% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 74-83-9 | Bromomethane | 3600 | | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 72% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 106% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 4800 | | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 96% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 5000 | | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 100% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 104% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 67-64-1 | Acetone | 41000 | | ug/L | 1000 | 155.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | -200% | | 51000 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5400 | | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 108% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 1634-04-4 | MTBE | 5900 | | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 118% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 5600 | | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 112% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 112% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 74-97-5 | Bromochloromethane | 5400 | | ug/L | 1000 | 81.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 108% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 67-66-3 | Chloroform | 5600 | | ug/L | 200 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 112% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 116% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 78-93-3 | 2-Butanone | 25000 | | ug/L | 100 | 16.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | -40% | | 27000 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 56-23-5 | Carbon tetrachloride | 5900 | | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 118% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 108% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5600 | | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 112% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 79-01-6 | Trichloroethene | 5600 | | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 112% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 110% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 5400 | | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 108% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 96% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4600 | | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 92% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 108-88-3 | Toluene | 4500 | | ug/L | 500 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 90% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 102% | | 180 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 94% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 127-18-4 | Tetrachloroethene | 4200 | | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 84% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4600 | | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 92% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 98% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 4700 | | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 94% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 591-78-6 | 2-Hexanone | 4500 | | ug/L | 200 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 87% | | 170 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 100-41-4 | Ethylbenzene | 3800 | | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 76% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 108-90-7 | Chlorobenzene | 3800 | | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 76% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4000 | | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 80% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | XYLMP | p&m-Xylene | 7500 | | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 10000 | 75% | | 38 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 95-47-6 | o-Xylene | 3800 | | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 76% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 100-42-5 | Styrene | 3800 | | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 76% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 75-25-2 | Bromoform | 4500 | | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 90% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 98-82-8 | Isopropylbenzene | 3900 | | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 78% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 103-65-1 | n-Propylbenzene | 3900 | | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 78% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4500 | | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 90% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4300 | | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 86% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 3900 | | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 77% | | 33 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 98-06-6 | tert-Butylbenzene | 3900 | | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 78% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 3800 | | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 74% | | 77 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4100 | | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 82% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4200 | | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 84% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 99-87-6 | p-Isopropltoluene | 4100 | | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 80% | | 90 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4300 | | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 86% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 92% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 104-51-8 | n-Butylbenzene | 4100 | | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 81% | | 54 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4300 | | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 86% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 4700 | | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 94% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4500 | | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 90% | | |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 91-20-3 | Naphthalene | 4300 | | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 81% | | 230 |
| NAL13026-183MS | Ops Batch 112-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4300 | | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 5000 | 86% | | |
| NAL13026-183MS | Ops Batch 112-MSD | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 50 | 110% | | |
| NAL13026-183MS | Ops Batch 112-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 50 | 98% | | |
| NAL13026-183MS | Ops Batch 112-MSD | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 50 | 86% | | |
| NAL13026-183MS | Ops Batch 112-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8131 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3500 | | ug/L | 500 | 29.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 70% | 9% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 74-87-3 | Chloromethane | 3900 | | ug/L | 500 | 43.07 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 78% | 5% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-01-4 | Vinyl chloride | 3300 | | ug/L | 200 | 31.86 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 66% | 6% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 74-83-9 | Bromomethane | 4000 | | ug/L | 500 | 50.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 80% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-00-3 | Chloroethane | 5000 | | ug/L | 500 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 100% | 6% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-69-4 | Trichlorofluoromethane | 4600 | | ug/L | 500 | 19.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 92% | 4% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 5400 | | ug/L | 100 | 47.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 108% | 8% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-09-2 | Methylene chloride | 5600 | | ug/L | 500 | 26.46 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 112% | 7% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 67-64-1 | Acetone | 41000 | | ug/L | 1000 | 155.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | -200% | 0% | 51000 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 6300 | | ug/L | 100 | 55.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 126% | 15% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 1634-04-4 | MTBE | 6700 | | ug/L | 500 | 61.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 134% | 13% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 5900 | | ug/L | 100 | 52.66 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 118% | 5% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 6200 | | ug/L | 100 | 32.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 124% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 74-97-5 | Bromochloromethane | 5800 | | ug/L | 1000 | 81.18 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 116% | 7% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 67-66-3 | Chloroform | 6200 | | ug/L | 200 | 41.37 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 124% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 6400 | | ug/L | 100 | 15.73 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 128% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | -20% | 4% | 27000 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 56-23-5 | Carbon tetrachloride | 6500 | | ug/L | 100 | 27.64 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 130% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 71-43-2 | Benzene | 5900 | | ug/L | 100 | 13.53 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 118% | 9% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 6300 | | ug/L | 100 | 20.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 126% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 79-01-6 | Trichloroethene | 6200 | | ug/L | 100 | 36.33 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 124% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 74-95-3 | Dibromomethane | 6200 | | ug/L | 200 | 32.20 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 124% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 6100 | | ug/L | 100 | 18.17 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 122% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 104% | 8% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 104% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 100% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 100 | 20.96 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 98% | 4% | 180 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 106% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 92% | 9% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 102% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 124-48-1 | Dibromochloromethane | 5600 | | ug/L | 500 | 68.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 112% | 13% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 106% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 591-78-6 | 2-Hexanone | 4600 | | ug/L | 200 | 26.49 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 89% | 2% | 170 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 100-41-4 | Ethylbenzene | 4100 | | ug/L | 100 | 25.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 82% | 8% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 84% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4500 | | ug/L | 200 | 19.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 90% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | XYLMP | p&m-Xylene | 8300 | | ug/L | 200 | 26.14 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 10000 | 83% | 10% | 38 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 95-47-6 | o-Xylene | 4200 | | ug/L | 100 | 12.90 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 84% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 100-42-5 | Styrene | 4300 | | ug/L | 100 | 20.23 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 86% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 102% | 13% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 98-82-8 | Isopropylbenzene | 4400 | | ug/L | 200 | 20.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 88% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 103-65-1 | n-Propylbenzene | 4300 | | ug/L | 200 | 27.00 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 86% | 10% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 102% | 13% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4600 | | ug/L | 200 | 29.47 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 92% | 7% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 87% | 12% | 33 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 98-06-6 | tert-Butylbenzene | 4400 | | ug/L | 200 | 32.61 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 88% | 12% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4300 | | ug/L | 200 | 20.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 84% | 12% | 77 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 92% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 94% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 99-87-6 | p-Isopropltoluene | 4600 | | ug/L | 200 | 25.48 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 90% | 11% | 90 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 94% | 9% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 102% | 10% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 104-51-8 | n-Butylbenzene | 4600 | | ug/L | 500 | 27.81 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 91% | 11% | 54 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 100% | 15% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 87-68-3 | Hexachlorobutadiene | 5400 | | ug/L | 500 | 65.42 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 108% | 14% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 100% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 91% | 11% | 230 |
| NAL13026-183MSD | Ops Batch 112-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 5000 | 96% | 11% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 50 | 114% | 4% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 50 | 104% | 6% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 50 | 86% | 0% | 0 |
| NAL13026-183MSD | Ops Batch 112-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/12/2013 | 5/12/2013 | 5/12/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8132 | 50 | 90% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187 | Ops Batch 116 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 67-64-1 | Acetone | 42000 | D | ug/L | 10000 | 1556.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8160 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 78-93-3 | 2-Butanone | 24000 | D | ug/L | 10000 | 811.80 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8160 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 71-43-2 | Benzene | 58 | J | ug/L | 100 | 13.53 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 108-88-3 | Toluene | 69 | J | ug/L | 100 | 20.96 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 540 | X+ | ug/L | 500 | 74.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 63 | J | ug/L | 100 | 31.15 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 100-41-4 | Ethylbenzene | 75 | J | ug/L | 100 | 25.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | XYLMP | p&m-Xylene | 170 | J | ug/L | 200 | 26.14 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 95-47-6 | o-Xylene | 85 | J | ug/L | 100 | 12.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 100-42-5 | Styrene | 90 | J | ug/L | 100 | 20.23 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 98-82-8 | Isopropylbenzene | 84 | J | ug/L | 200 | 20.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 103-65-1 | n-Propylbenzene | 100 | J | ug/L | 200 | 27.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187 | Ops Batch 116 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 98-06-6 | tert-Butylbenzene | 93 | J | ug/L | 200 | 32.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 135-98-8 | sec-Butylbenzene | 110 | J | ug/L | 200 | 32.34 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 99-87-6 | p-Isopropltoluene | 300 | | ug/L | 200 | 25.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 120 | J | ug/L | 200 | 26.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 104-51-8 | n-Butylbenzene | 150 | J | ug/L | 500 | 27.81 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 160 | J | ug/L | 500 | 27.63 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 91-20-3 | Naphthalene | 490 | J | ug/L | 500 | 56.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 170 | J | ug/L | 500 | 23.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | | | | |
| NAL13026-187 | Ops Batch 116 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | 50 | 102% | | |
| NAL13026-187 | Ops Batch 116 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | 50 | 102% | | |
| NAL13026-187 | Ops Batch 116 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | 50 | 96% | | |
| NAL13026-187 | Ops Batch 116 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8159 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 67-64-1 | Acetone | 52000 | D | ug/L | 10000 | 1556.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8172 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 78-93-3 | 2-Butanone | 32000 | D | ug/L | 10000 | 166.52 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8172 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 71-43-2 | Benzene | 29 | J | ug/L | 100 | 13.53 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 560 | X+ | ug/L | 500 | 20.96 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 591-78-6 | 2-Hexanone | 230 | J | ug/L | 500 | 26.49 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 100-41-4 | Ethylbenzene | 27 | J | ug/L | 100 | 25.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | XYLMP | p&m-Xylene | 61 | J | ug/L | 200 | 26.14 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 95-47-6 | o-Xylene | 31 | J | ug/L | 100 | 12.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 98-82-8 | Isopropylbenzene | 26 | J | ug/L | 200 | 20.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 103-65-1 | n-Propylbenzene | 37 | J | ug/L | 200 | 27.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-188 | Ops Batch 117-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 77 | J | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | J | ug/L | 200 | 22.21 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 99-87-6 | p-Isopropltoluene | 270 | | ug/L | 200 | 25.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 104-51-8 | n-Butylbenzene | 61 | J | ug/L | 500 | 27.81 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 91-20-3 | Naphthalene | 370 | J | ug/L | 500 | 56.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | | | | |
| NAL13026-188 | Ops Batch 117-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | 50 | 100% | | |
| NAL13026-188 | Ops Batch 117-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | 50 | 98% | | |
| NAL13026-188 | Ops Batch 117-MSD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | 50 | 96% | | |
| NAL13026-188 | Ops Batch 117-MSD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8171 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313CCVA | J051313CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 44 | | ug/L | 5 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 88% | | |
| J051313CCVA | J051313CCVA | ORG | 74-87-3 | Chloromethane | 51 | | ug/L | 5 | 0.43 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 75-01-4 | Vinyl chloride | 39 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 78% | | |
| J051313CCVA | J051313CCVA | ORG | 74-83-9 | Bromomethane | 55 | | ug/L | 5 | 0.50 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 110% | | |
| J051313CCVA | J051313CCVA | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 84% | | |
| J051313CCVA | J051313CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 67-64-1 | Acetone | 51 | | ug/L | 10 | 1.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |
| J051313CCVA | J051313CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 67-66-3 | Chloroform | 49 | | ug/L | 2 | 0.41 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 108% | | |
| J051313CCVA | J051313CCVA | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 104% | | |
| J051313CCVA | J051313CCVA | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 48 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 104% | | |
| J051313CCVA | J051313CCVA | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |
| J051313CCVA | J051313CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 62 | | ug/L | 1 | 0.21 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 124% | | |
| J051313CCVA | J051313CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 82% | | |
| J051313CCVA | J051313CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 106% | | |
| J051313CCVA | J051313CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 108% | | |
| J051313CCVA | J051313CCVA | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 88% | | |
| J051313CCVA | J051313CCVA | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 90% | | |
| J051313CCVA | J051313CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |
| J051313CCVA | J051313CCVA | ORG | XYLMP | p&m-Xylene | 88 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 100 | 88% | | |
| J051313CCVA | J051313CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 90% | | |
| J051313CCVA | J051313CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 90% | | |
| J051313CCVA | J051313CCVA | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 104% | | |
| J051313CCVA | J051313CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 90% | | |
| J051313CCVA | J051313CCVA | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313CCVA | J051313CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 92% | | |
| J051313CCVA | J051313CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |
| J051313CCVA | J051313CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 94% | | |
| J051313CCVA | J051313CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 55 | | ug/L | 5 | 0.65 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 110% | | |
| J051313CCVA | J051313CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 102% | | |
| J051313CCVA | J051313CCVA | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 92% | | |
| J051313CCVA | J051313CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 98% | | |
| J051313CCVA | J051313CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 100% | | |
| J051313CCVA | J051313CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |
| J051313CCVA | J051313CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8157 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313MBKA | J051313MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313MBKA | J051313MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | | | | |
| J051313MBKA | J051313MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | 50 | 102% | | |
| J051313MBKA | J051313MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | 50 | 108% | | |
| J051313MBKA | J051313MBKA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | 50 | 98% | | |
| J051313MBKA | J051313MBKA | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8158 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313ALCS | J051313ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 37 | | ug/L | 5 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 74% | | |
| J051313ALCS | J051313ALCS | ORG | 74-87-3 | Chloromethane | 45 | | ug/L | 5 | 0.43 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 90% | | |
| J051313ALCS | J051313ALCS | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 82% | | |
| J051313ALCS | J051313ALCS | ORG | 74-83-9 | Bromomethane | 57 | | ug/L | 5 | 0.50 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 114% | | |
| J051313ALCS | J051313ALCS | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 84% | | |
| J051313ALCS | J051313ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 43 | | ug/L | 5 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 86% | | |
| J051313ALCS | J051313ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 86% | | |
| J051313ALCS | J051313ALCS | ORG | 75-09-2 | Methylene chloride | 45 | | ug/L | 5 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 90% | | |
| J051313ALCS | J051313ALCS | ORG | 67-64-1 | Acetone | 53 | | ug/L | 10 | 1.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 106% | | |
| J051313ALCS | J051313ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 114% | | |
| J051313ALCS | J051313ALCS | ORG | 1634-04-4 | MTBE | 62 | | ug/L | 5 | 0.61 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 124% | | |
| J051313ALCS | J051313ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 110% | | |
| J051313ALCS | J051313ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | ORG | 74-97-5 | Bromochloromethane | 47 | | ug/L | 10 | 0.81 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 78-93-3 | 2-Butanone | 58 | | ug/L | 1 | 0.17 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 116% | | |
| J051313ALCS | J051313ALCS | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 100% | | |
| J051313ALCS | J051313ALCS | ORG | 74-95-3 | Dibromomethane | 48 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 92% | | |
| J051313ALCS | J051313ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 62 | | ug/L | 1 | 0.21 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 124% | | |
| J051313ALCS | J051313ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | ORG | 127-18-4 | Tetrachloroethene | 45 | | ug/L | 1 | 0.49 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 90% | | |
| J051313ALCS | J051313ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 102% | | |
| J051313ALCS | J051313ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 118% | | |
| J051313ALCS | J051313ALCS | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 82% | | |
| J051313ALCS | J051313ALCS | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 82% | | |
| J051313ALCS | J051313ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.19 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 86% | | |
| J051313ALCS | J051313ALCS | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 100 | 82% | | |
| J051313ALCS | J051313ALCS | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 86% | | |
| J051313ALCS | J051313ALCS | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 84% | | |
| J051313ALCS | J051313ALCS | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 100% | | |
| J051313ALCS | J051313ALCS | ORG | 98-82-8 | Isopropylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 82% | | |
| J051313ALCS | J051313ALCS | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313ALCS | J051313ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 106% | | |
| J051313ALCS | J051313ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 102% | | |
| J051313ALCS | J051313ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 88% | | |
| J051313ALCS | J051313ALCS | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 88% | | |
| J051313ALCS | J051313ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 90% | | |
| J051313ALCS | J051313ALCS | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 90% | | |
| J051313ALCS | J051313ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 92% | | |
| J051313ALCS | J051313ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 106% | | |
| J051313ALCS | J051313ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 106% | | |
| J051313ALCS | J051313ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 94% | | |
| J051313ALCS | J051313ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 100% | | |
| J051313ALCS | J051313ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 98% | | |
| J051313ALCS | J051313ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 96% | | |
| J051313ALCS | J051313ALCS | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8161 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313ALCD | J051313ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 36 | | ug/L | 5 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 72% | 3% | |
| J051313ALCD | J051313ALCD | ORG | 74-87-3 | Chloromethane | 54 | | ug/L | 5 | 0.43 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 108% | 18% | |
| J051313ALCD | J051313ALCD | ORG | 75-01-4 | Vinyl chloride | 39 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 78% | 5% | |
| J051313ALCD | J051313ALCD | ORG | 74-83-9 | Bromomethane | 57 | | ug/L | 5 | 0.50 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 114% | 0% | |
| J051313ALCD | J051313ALCD | ORG | 75-00-3 | Chloroethane | 39 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 78% | 7% | |
| J051313ALCD | J051313ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 90% | 5% | |
| J051313ALCD | J051313ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 86% | 0% | |
| J051313ALCD | J051313ALCD | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 94% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 13% | |
| J051313ALCD | J051313ALCD | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 106% | 16% | |
| J051313ALCD | J051313ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 110% | 0% | |
| J051313ALCD | J051313ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 98% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 98% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 118% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 102% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 96% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 102% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 96% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 62 | | ug/L | 1 | 0.21 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 124% | 0% | |
| J051313ALCD | J051313ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 102% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 11% | |
| J051313ALCD | J051313ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 106% | 8% | |
| J051313ALCD | J051313ALCD | ORG | 591-78-6 | 2-Hexanone | 60 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 120% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 84% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 84% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 90% | 5% | |
| J051313ALCD | J051313ALCD | ORG | XYLMP | p&m-Xylene | 85 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 100 | 85% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 88% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 86% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 86% | 5% | |
| J051313ALCD | J051313ALCD | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 90% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051313ALCD | J051313ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 108% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 108% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 92% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 94% | 7% | |
| J051313ALCD | J051313ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 92% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 94% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 96% | 2% | |
| J051313ALCD | J051313ALCD | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 96% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 102% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 4% | |
| J051313ALCD | J051313ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 58 | | ug/L | 5 | 1.59 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 116% | 9% | |
| J051313ALCD | J051313ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 57 | | ug/L | 5 | 0.65 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 114% | 7% | |
| J051313ALCD | J051313ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 6% | |
| J051313ALCD | J051313ALCD | ORG | 91-20-3 | Naphthalene | 52 | | ug/L | 5 | 0.56 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 10% | |
| J051313ALCD | J051313ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 104% | 6% | |
| J051313ALCD | J051313ALCD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 100% | 0% | |
| J051313ALCD | J051313ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 98% | 0% | |
| J051313ALCD | J051313ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 96% | 0% | |
| J051313ALCD | J051313ALCD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/13/2013 | 5/13/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8162 | 50 | 92% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187MS | Ops Batch 116 | ORG | 75-71-8 | Dichlorodifluoromethane | 2700 | | ug/L | 500 | 29.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 54% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 74-87-3 | Chloromethane | 5600 | | ug/L | 500 | 43.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 112% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-01-4 | Vinyl chloride | 3400 | | ug/L | 200 | 31.86 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 68% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 74-83-9 | Bromomethane | 5700 | | ug/L | 500 | 50.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 114% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-00-3 | Chloroethane | 4900 | | ug/L | 500 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-69-4 | Trichlorofluoromethane | 4400 | | ug/L | 500 | 19.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 88% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-35-4 | 1,1-Dichloroethene | 4300 | | ug/L | 100 | 47.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 86% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-09-2 | Methylene chloride | 4700 | | ug/L | 500 | 26.46 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 94% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 67-64-1 | Acetone | 38000 | | ug/L | 1000 | 155.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | -80% | | 42000 |
| NAL13026-187MS | Ops Batch 116 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4700 | | ug/L | 100 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 94% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 1634-04-4 | MTBE | 5400 | | ug/L | 500 | 61.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 108% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-34-3 | 1,1-Dichloroethane | 5600 | | ug/L | 100 | 52.66 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 112% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 74-97-5 | Bromochloromethane | 4700 | | ug/L | 1000 | 81.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 94% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 67-66-3 | Chloroform | 4800 | | ug/L | 200 | 41.37 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 96% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4900 | | ug/L | 100 | 15.73 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 0% | | 24000 |
| NAL13026-187MS | Ops Batch 116 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 100% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 93% | | 58 |
| NAL13026-187MS | Ops Batch 116 | ORG | 107-06-2 | 1,2-Dichloroethane | 4700 | | ug/L | 100 | 20.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 94% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 102% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 74-95-3 | Dibromomethane | 4900 | | ug/L | 200 | 32.20 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 96% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 96% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 91% | | 69 |
| NAL13026-187MS | Ops Batch 116 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6000 | | ug/L | 100 | 20.96 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 109% | | 540 |
| NAL13026-187MS | Ops Batch 116 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 99% | | 63 |
| NAL13026-187MS | Ops Batch 116 | ORG | 127-18-4 | Tetrachloroethene | 4200 | | ug/L | 100 | 48.56 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 84% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 102% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 102% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 591-78-6 | 2-Hexanone | 5200 | | ug/L | 200 | 26.49 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 104% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 100-41-4 | Ethylbenzene | 4200 | | ug/L | 100 | 25.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 83% | | 75 |
| NAL13026-187MS | Ops Batch 116 | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 84% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4500 | | ug/L | 200 | 19.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 90% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | XYLMP | p&m-Xylene | 8300 | | ug/L | 200 | 26.14 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 10000 | 81% | | 170 |
| NAL13026-187MS | Ops Batch 116 | ORG | 95-47-6 | o-Xylene | 4300 | | ug/L | 100 | 12.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 84% | | 85 |
| NAL13026-187MS | Ops Batch 116 | ORG | 100-42-5 | Styrene | 4300 | | ug/L | 100 | 20.23 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 84% | | 90 |
| NAL13026-187MS | Ops Batch 116 | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 106% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 98-82-8 | Isopropylbenzene | 4200 | | ug/L | 200 | 20.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 82% | | 84 |
| NAL13026-187MS | Ops Batch 116 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 88% | | 100 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187MS | Ops Batch 116 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 106% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 104% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 88% | | 110 |
| NAL13026-187MS | Ops Batch 116 | ORG | 98-06-6 | tert-Butylbenzene | 4400 | | ug/L | 200 | 32.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 86% | | 93 |
| NAL13026-187MS | Ops Batch 116 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 89% | | 150 |
| NAL13026-187MS | Ops Batch 116 | ORG | 135-98-8 | sec-Butylbenzene | 4500 | | ug/L | 200 | 32.34 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 88% | | 110 |
| NAL13026-187MS | Ops Batch 116 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4600 | | ug/L | 200 | 22.21 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 92% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 90% | | 300 |
| NAL13026-187MS | Ops Batch 116 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 100% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 96% | | 120 |
| NAL13026-187MS | Ops Batch 116 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 95% | | 150 |
| NAL13026-187MS | Ops Batch 116 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5700 | | ug/L | 500 | 159.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 114% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 87-68-3 | Hexachlorobutadiene | 4900 | | ug/L | 500 | 65.42 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 97% | | 160 |
| NAL13026-187MS | Ops Batch 116 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 94% | | 490 |
| NAL13026-187MS | Ops Batch 116 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5000 | | ug/L | 500 | 23.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 5000 | 97% | | 170 |
| NAL13026-187MS | Ops Batch 116 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 50 | 102% | | |
| NAL13026-187MS | Ops Batch 116 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 50 | 98% | | |
| NAL13026-187MS | Ops Batch 116 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 50 | 96% | | |
| NAL13026-187MS | Ops Batch 116 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8163 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-71-8 | Dichlorodifluoromethane | 3900 | | ug/L | 500 | 29.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 78% | 36% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 74-87-3 | Chloromethane | 5300 | | ug/L | 500 | 43.07 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 106% | 6% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-01-4 | Vinyl chloride | 3600 | | ug/L | 200 | 31.86 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 72% | 6% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 74-83-9 | Bromomethane | 6500 | | ug/L | 500 | 50.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 130% | 13% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 94% | 4% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-69-4 | Trichlorofluoromethane | 4500 | | ug/L | 500 | 19.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 90% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 84% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-09-2 | Methylene chloride | 4600 | | ug/L | 500 | 26.46 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 92% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 67-64-1 | Acetone | 39000 | | ug/L | 1000 | 155.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | -60% | 3% | 42000 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4600 | | ug/L | 100 | 55.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 92% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 106% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-34-3 | 1,1-Dichloroethane | 5400 | | ug/L | 100 | 52.66 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 108% | 4% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4700 | | ug/L | 100 | 32.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 94% | 4% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 74-97-5 | Bromochloromethane | 4800 | | ug/L | 1000 | 81.18 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 96% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 67-66-3 | Chloroform | 4800 | | ug/L | 200 | 41.37 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 96% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4900 | | ug/L | 100 | 15.73 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 98% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 78-93-3 | 2-Butanone | 25000 | | ug/L | 100 | 16.65 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 20% | 4% | 24000 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 93% | 0% | 58 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 6% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 79-01-6 | Trichloroethene | 5000 | | ug/L | 100 | 36.33 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 74-95-3 | Dibromomethane | 5000 | | ug/L | 200 | 32.20 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 98% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-27-4 | Bromodichloromethane | 4900 | | ug/L | 200 | 11.58 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 98% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 96% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 108-88-3 | Toluene | 4700 | | ug/L | 500 | 74.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 93% | 2% | 69 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5800 | | ug/L | 100 | 20.96 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 105% | 3% | 540 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 99% | 0% | 63 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 86% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 98% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 124-48-1 | Dibromochloromethane | 5300 | | ug/L | 500 | 68.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 106% | 4% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 102% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 591-78-6 | 2-Hexanone | 4800 | | ug/L | 200 | 26.49 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 96% | 8% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 100-41-4 | Ethylbenzene | 4200 | | ug/L | 100 | 25.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 83% | 0% | 75 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 84% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4400 | | ug/L | 200 | 19.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 88% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | XYLMP | p&m-Xylene | 8300 | | ug/L | 200 | 26.14 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 10000 | 81% | 0% | 170 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 95-47-6 | o-Xylene | 4300 | | ug/L | 100 | 12.90 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 84% | 0% | 85 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 100-42-5 | Styrene | 4300 | | ug/L | 100 | 20.23 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 84% | 0% | 90 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 75-25-2 | Bromoform | 5200 | | ug/L | 200 | 46.83 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 104% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 84% | 2% | 84 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 103-65-1 | n-Propylbenzene | 4400 | | ug/L | 200 | 27.00 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 86% | 2% | 100 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-187MSD | Ops Batch 116 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 110% | 4% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 106% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 88% | 0% | 110 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 98-06-6 | tert-Butylbenzene | 4400 | | ug/L | 200 | 32.61 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 86% | 0% | 93 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 87% | 2% | 150 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 135-98-8 | sec-Butylbenzene | 4500 | | ug/L | 200 | 32.34 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 88% | 0% | 110 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 94% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 90% | 0% | 300 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 96% | 0% | 120 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 95% | 0% | 150 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5600 | | ug/L | 500 | 159.11 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 112% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 100% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4800 | | ug/L | 500 | 27.63 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 93% | 4% | 160 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 94% | 0% | 490 |
| NAL13026-187MSD | Ops Batch 116 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 5000 | 93% | 4% | 170 |
| NAL13026-187MSD | Ops Batch 116 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 50 | 100% | 2% | 0 |
| NAL13026-187MSD | Ops Batch 116 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 50 | 98% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 50 | 96% | 0% | 0 |
| NAL13026-187MSD | Ops Batch 116 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/13/2013 | 5/13/2013 | 5/13/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8164 | 50 | 92% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189 | Ops Batch 118 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 67-64-1 | Acetone | 30000 | D | ug/L | 10000 | 1556.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8179 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 78-93-3 | 2-Butanone | 18000 | D | ug/L | 10000 | 811.80 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8179 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 71-43-2 | Benzene | 37 | J | ug/L | 100 | 13.53 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 108-88-3 | Toluene | 40 | J | ug/L | 100 | 20.96 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 520 | X+ | ug/L | 500 | 74.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 68.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 100-41-4 | Ethylbenzene | 35 | J | ug/L | 100 | 25.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | XYLMP | p&m-Xylene | 78 | J | ug/L | 200 | 26.14 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 95-47-6 | o-Xylene | 39 | J | ug/L | 100 | 12.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 100-42-5 | Styrene | 45 | J | ug/L | 100 | 20.23 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 98-82-8 | Isopropylbenzene | 34 | J | ug/L | 200 | 20.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 103-65-1 | n-Propylbenzene | 40 | J | ug/L | 200 | 27.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189 | Ops Batch 118 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 59 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 135-98-8 | sec-Butylbenzene | 37 | J | ug/L | 200 | 32.34 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 99-87-6 | p-Isopropltoluene | 89 | J | ug/L | 200 | 25.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | J | ug/L | 200 | 26.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 104-51-8 | n-Butylbenzene | 52 | J | ug/L | 500 | 27.81 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 91-20-3 | Naphthalene | 260 | J | ug/L | 500 | 56.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | | | | |
| NAL13026-189 | Ops Batch 118 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | 50 | 102% | | |
| NAL13026-189 | Ops Batch 118 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | 50 | 102% | | |
| NAL13026-189 | Ops Batch 118 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | 50 | 96% | | |
| NAL13026-189 | Ops Batch 118 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8178 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-190 | Ops Batch 120 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 67-64-1 | Acetone | 81000 | D | ug/L | 10000 | 1556.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8187 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 78-93-3 | 2-Butanone | 46000 | D | ug/L | 10000 | 166.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8187 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 108-88-3 | Toluene | 36 | J | ug/L | 100 | 74.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 690 | X+ | ug/L | 500 | 20.96 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 591-78-6 | 2-Hexanone | 410 | J | ug/L | 500 | 26.49 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 100-41-4 | Ethylbenzene | 39 | J | ug/L | 100 | 25.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | XYLMP | p&m-Xylene | 94 | J | ug/L | 200 | 26.14 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 95-47-6 | o-Xylene | 45 | J | ug/L | 100 | 12.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 100-42-5 | Styrene | 52 | J | ug/L | 100 | 20.23 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 98-82-8 | Isopropylbenzene | 47 | J | ug/L | 200 | 20.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 103-65-1 | n-Propylbenzene | 58 | J | ug/L | 200 | 27.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-190 | Ops Batch 120 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 71 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 140 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 99-87-6 | p-Isopropltoluene | 630 | | ug/L | 200 | 25.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 220 | | ug/L | 200 | 33.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 64 | J | ug/L | 200 | 26.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 104-51-8 | n-Butylbenzene | 110 | J | ug/L | 500 | 27.81 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 91-20-3 | Naphthalene | 610 | | ug/L | 500 | 56.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | | | | |
| NAL13026-190 | Ops Batch 120 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | 50 | 100% | | |
| NAL13026-190 | Ops Batch 120 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | 50 | 96% | | |
| NAL13026-190 | Ops Batch 120 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | 50 | 96% | | |
| NAL13026-190 | Ops Batch 120 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8185 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 67-64-1 | Acetone | 42000 | D | ug/L | 10000 | 1556.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8188 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 78-93-3 | 2-Butanone | 25000 | D | ug/L | 10000 | 166.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8188 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 71-43-2 | Benzene | 25 | J | ug/L | 100 | 13.53 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 108-88-3 | Toluene | 34 | J | ug/L | 100 | 74.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 730 | X+ | ug/L | 500 | 20.96 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 100-41-4 | Ethylbenzene | 39 | J | ug/L | 100 | 25.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | XYLMP | p&m-Xylene | 79 | J | ug/L | 200 | 26.14 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 95-47-6 | o-Xylene | 38 | J | ug/L | 100 | 12.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 100-42-5 | Styrene | 45 | J | ug/L | 100 | 20.23 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 103-65-1 | n-Propylbenzene | 46 | J | ug/L | 200 | 27.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-191 | Ops Batch 119-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 56 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 75 | J | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 135-98-8 | sec-Butylbenzene | 49 | J | ug/L | 200 | 32.34 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 99-87-6 | p-Isopropltoluene | 140 | J | ug/L | 200 | 25.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 91-20-3 | Naphthalene | 380 | J | ug/L | 500 | 56.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | | | | |
| NAL13026-191 | Ops Batch 119-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | 50 | 100% | | |
| NAL13026-191 | Ops Batch 119-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | 50 | 108% | | |
| NAL13026-191 | Ops Batch 119-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | 50 | 98% | | |
| NAL13026-191 | Ops Batch 119-MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8186 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413CCVA | J051413CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 22 | | ug/L | 5 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 44% | | |
| J051413CCVA | J051413CCVA | ORG | 74-87-3 | Chloromethane | 53 | | ug/L | 5 | 0.43 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 106% | | |
| J051413CCVA | J051413CCVA | ORG | 75-01-4 | Vinyl chloride | 33 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 66% | | |
| J051413CCVA | J051413CCVA | ORG | 74-83-9 | Bromomethane | 64 | | ug/L | 5 | 0.50 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 128% | | |
| J051413CCVA | J051413CCVA | ORG | 75-00-3 | Chloroethane | 44 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 88% | | |
| J051413CCVA | J051413CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 43 | | ug/L | 5 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 86% | | |
| J051413CCVA | J051413CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 44 | | ug/L | 1 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 88% | | |
| J051413CCVA | J051413CCVA | ORG | 75-09-2 | Methylene chloride | 46 | | ug/L | 5 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 92% | | |
| J051413CCVA | J051413CCVA | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 104% | | |
| J051413CCVA | J051413CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 92% | | |
| J051413CCVA | J051413CCVA | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 100% | | |
| J051413CCVA | J051413CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 112% | | |
| J051413CCVA | J051413CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 67-66-3 | Chloroform | 48 | | ug/L | 2 | 0.41 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 114% | | |
| J051413CCVA | J051413CCVA | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 49 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 130% | | |
| J051413CCVA | J051413CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 127-18-4 | Tetrachloroethene | 42 | | ug/L | 1 | 0.49 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 84% | | |
| J051413CCVA | J051413CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 100% | | |
| J051413CCVA | J051413CCVA | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 108% | | |
| J051413CCVA | J051413CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 591-78-6 | 2-Hexanone | 60 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 120% | | |
| J051413CCVA | J051413CCVA | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 88% | | |
| J051413CCVA | J051413CCVA | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 90% | | |
| J051413CCVA | J051413CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 94% | | |
| J051413CCVA | J051413CCVA | ORG | XYLMP | p&m-Xylene | 88 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 100 | 88% | | |
| J051413CCVA | J051413CCVA | ORG | 95-47-6 | o-Xylene | 56 | | ug/L | 1 | 0.13 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 112% | | |
| J051413CCVA | J051413CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 90% | | |
| J051413CCVA | J051413CCVA | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 110% | | |
| J051413CCVA | J051413CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 90% | | |
| J051413CCVA | J051413CCVA | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413CCVA | J051413CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 110% | | |
| J051413CCVA | J051413CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 108% | | |
| J051413CCVA | J051413CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 92% | | |
| J051413CCVA | J051413CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 100% | | |
| J051413CCVA | J051413CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 104% | | |
| J051413CCVA | J051413CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 104% | | |
| J051413CCVA | J051413CCVA | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 106% | | |
| J051413CCVA | J051413CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 112% | | |
| J051413CCVA | J051413CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 104% | | |
| J051413CCVA | J051413CCVA | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 98% | | |
| J051413CCVA | J051413CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 102% | | |
| J051413CCVA | J051413CCVA | STD | 1868-53-7 | Dibromofluoromethane | 48 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 94% | | |
| J051413CCVA | J051413CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 96% | | |
| J051413CCVA | J051413CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8176 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413MBKA | J051413MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413MBKA | J051413MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | | | | |
| J051413MBKA | J051413MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | 50 | 102% | | |
| J051413MBKA | J051413MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | 50 | 104% | | |
| J051413MBKA | J051413MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | 50 | 96% | | |
| J051413MBKA | J051413MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8177 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413ALCS | J051413ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 13 | | ug/L | 5 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 26% | | |
| J051413ALCS | J051413ALCS | ORG | 74-87-3 | Chloromethane | 39 | | ug/L | 5 | 0.43 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 78% | | |
| J051413ALCS | J051413ALCS | ORG | 75-01-4 | Vinyl chloride | 29 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 58% | | |
| J051413ALCS | J051413ALCS | ORG | 74-83-9 | Bromomethane | 66 | | ug/L | 5 | 0.50 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 132% | | |
| J051413ALCS | J051413ALCS | ORG | 75-00-3 | Chloroethane | 41 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 82% | | |
| J051413ALCS | J051413ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 39 | | ug/L | 5 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 78% | | |
| J051413ALCS | J051413ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 86% | | |
| J051413ALCS | J051413ALCS | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 94% | | |
| J051413ALCS | J051413ALCS | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 114% | | |
| J051413ALCS | J051413ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 92% | | |
| J051413ALCS | J051413ALCS | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 106% | | |
| J051413ALCS | J051413ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 110% | | |
| J051413ALCS | J051413ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 98% | | |
| J051413ALCS | J051413ALCS | ORG | 78-93-3 | 2-Butanone | 62 | | ug/L | 1 | 0.17 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 124% | | |
| J051413ALCS | J051413ALCS | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 94% | | |
| J051413ALCS | J051413ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 102% | | |
| J051413ALCS | J051413ALCS | ORG | 74-95-3 | Dibromomethane | 51 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 102% | | |
| J051413ALCS | J051413ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 98% | | |
| J051413ALCS | J051413ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 94% | | |
| J051413ALCS | J051413ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 67 | | ug/L | 1 | 0.21 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 134% | | |
| J051413ALCS | J051413ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 127-18-4 | Tetrachloroethene | 46 | | ug/L | 1 | 0.49 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 92% | | |
| J051413ALCS | J051413ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 106% | | |
| J051413ALCS | J051413ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 104% | | |
| J051413ALCS | J051413ALCS | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 126% | | |
| J051413ALCS | J051413ALCS | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 86% | | |
| J051413ALCS | J051413ALCS | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 86% | | |
| J051413ALCS | J051413ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 90% | | |
| J051413ALCS | J051413ALCS | ORG | XYLMP | p&m-Xylene | 84 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 100 | 84% | | |
| J051413ALCS | J051413ALCS | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 88% | | |
| J051413ALCS | J051413ALCS | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 88% | | |
| J051413ALCS | J051413ALCS | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 110% | | |
| J051413ALCS | J051413ALCS | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 88% | | |
| J051413ALCS | J051413ALCS | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413ALCS | J051413ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 110% | | |
| J051413ALCS | J051413ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 110% | | |
| J051413ALCS | J051413ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 92% | | |
| J051413ALCS | J051413ALCS | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 90% | | |
| J051413ALCS | J051413ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 92% | | |
| J051413ALCS | J051413ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 92% | | |
| J051413ALCS | J051413ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 94% | | |
| J051413ALCS | J051413ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 102% | | |
| J051413ALCS | J051413ALCS | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 108% | | |
| J051413ALCS | J051413ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 104% | | |
| J051413ALCS | J051413ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 98% | | |
| J051413ALCS | J051413ALCS | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 100% | | |
| J051413ALCS | J051413ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 56 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 112% | | |
| J051413ALCS | J051413ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 96% | | |
| J051413ALCS | J051413ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8180 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413ALCD | J051413ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 12 | | ug/L | 5 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 24% | 8% | |
| J051413ALCD | J051413ALCD | ORG | 74-87-3 | Chloromethane | 49 | | ug/L | 5 | 0.43 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 23% | |
| J051413ALCD | J051413ALCD | ORG | 75-01-4 | Vinyl chloride | 33 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 66% | 13% | |
| J051413ALCD | J051413ALCD | ORG | 74-83-9 | Bromomethane | 53 | | ug/L | 5 | 0.50 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 106% | 22% | |
| J051413ALCD | J051413ALCD | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 84% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 41 | | ug/L | 5 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 82% | 5% | |
| J051413ALCD | J051413ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 45 | | ug/L | 1 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 90% | 5% | |
| J051413ALCD | J051413ALCD | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 94% | 0% | |
| J051413ALCD | J051413ALCD | ORG | 67-64-1 | Acetone | 55 | | ug/L | 10 | 1.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 110% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 44 | | ug/L | 1 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 88% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 106% | 0% | |
| J051413ALCD | J051413ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 12% | |
| J051413ALCD | J051413ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 74-97-5 | Bromochloromethane | 46 | | ug/L | 10 | 0.81 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 94% | 6% | |
| J051413ALCD | J051413ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 112% | 10% | |
| J051413ALCD | J051413ALCD | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 48 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 38 | | ug/L | 1 | 0.18 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 76% | 25% | |
| J051413ALCD | J051413ALCD | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 90% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 63 | | ug/L | 1 | 0.21 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 126% | 6% | |
| J051413ALCD | J051413ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 127-18-4 | Tetrachloroethene | 46 | | ug/L | 1 | 0.49 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 0% | |
| J051413ALCD | J051413ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 102% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 6% | |
| J051413ALCD | J051413ALCD | ORG | 591-78-6 | 2-Hexanone | 62 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 124% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 82% | 5% | |
| J051413ALCD | J051413ALCD | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 84% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 88% | 2% | |
| J051413ALCD | J051413ALCD | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 100 | 82% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 86% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 84% | 5% | |
| J051413ALCD | J051413ALCD | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 102% | 8% | |
| J051413ALCD | J051413ALCD | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 84% | 5% | |
| J051413ALCD | J051413ALCD | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 88% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051413ALCD | J051413ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 102% | 8% | |
| J051413ALCD | J051413ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 102% | 8% | |
| J051413ALCD | J051413ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 88% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 90% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 90% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 92% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 100% | 8% | |
| J051413ALCD | J051413ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 100% | 4% | |
| J051413ALCD | J051413ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 94% | 2% | |
| J051413ALCD | J051413ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 0% | |
| J051413ALCD | J051413ALCD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 100% | 0% | |
| J051413ALCD | J051413ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 98% | 13% | |
| J051413ALCD | J051413ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 96% | 0% | |
| J051413ALCD | J051413ALCD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/14/2013 | 5/14/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8181 | 50 | 94% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189MS | Ops Batch 118 | ORG | 75-71-8 | Dichlorodifluoromethane | 2300 | | ug/L | 500 | 29.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 46% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 74-87-3 | Chloromethane | 4900 | | ug/L | 500 | 43.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-01-4 | Vinyl chloride | 3000 | | ug/L | 200 | 31.86 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 60% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 74-83-9 | Bromomethane | 5600 | | ug/L | 500 | 50.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 112% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-00-3 | Chloroethane | 4000 | | ug/L | 500 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 80% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-69-4 | Trichlorofluoromethane | 3900 | | ug/L | 500 | 19.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 78% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 84% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-09-2 | Methylene chloride | 4800 | | ug/L | 500 | 26.46 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 67-64-1 | Acetone | 42000 | | ug/L | 1000 | 155.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 240% | | 30000 |
| NAL13026-189MS | Ops Batch 118 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4700 | | ug/L | 100 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 94% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 106% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-34-3 | 1,1-Dichloroethane | 5000 | | ug/L | 100 | 52.66 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4800 | | ug/L | 100 | 32.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 74-97-5 | Bromochloromethane | 4800 | | ug/L | 1000 | 81.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 67-66-3 | Chloroform | 4800 | | ug/L | 200 | 41.37 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 160% | | 18000 |
| NAL13026-189MS | Ops Batch 118 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 93% | | 37 |
| NAL13026-189MS | Ops Batch 118 | ORG | 107-06-2 | 1,2-Dichloroethane | 4900 | | ug/L | 100 | 20.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 102% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 74-95-3 | Dibromomethane | 5000 | | ug/L | 200 | 32.20 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 91% | | 40 |
| NAL13026-189MS | Ops Batch 118 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5700 | | ug/L | 100 | 20.96 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 104% | | 520 |
| NAL13026-189MS | Ops Batch 118 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 127-18-4 | Tetrachloroethene | 4200 | | ug/L | 100 | 48.56 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 84% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 102% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 102% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 591-78-6 | 2-Hexanone | 4800 | | ug/L | 200 | 26.49 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 90% | | 280 |
| NAL13026-189MS | Ops Batch 118 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 85% | | 35 |
| NAL13026-189MS | Ops Batch 118 | ORG | 108-90-7 | Chlorobenzene | 4300 | | ug/L | 100 | 27.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 86% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4500 | | ug/L | 200 | 19.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 90% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | XYLMP | p&m-Xylene | 8500 | | ug/L | 200 | 26.14 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 10000 | 84% | | 78 |
| NAL13026-189MS | Ops Batch 118 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 87% | | 39 |
| NAL13026-189MS | Ops Batch 118 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 87% | | 45 |
| NAL13026-189MS | Ops Batch 118 | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 106% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 85% | | 34 |
| NAL13026-189MS | Ops Batch 118 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 89% | | 40 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189MS | Ops Batch 118 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 106% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 106% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 91% | | 44 |
| NAL13026-189MS | Ops Batch 118 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 92% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 91% | | 59 |
| NAL13026-189MS | Ops Batch 118 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 91% | | 37 |
| NAL13026-189MS | Ops Batch 118 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 94% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 94% | | 89 |
| NAL13026-189MS | Ops Batch 118 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 99% | | 49 |
| NAL13026-189MS | Ops Batch 118 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 97% | | 52 |
| NAL13026-189MS | Ops Batch 118 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 108% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5100 | | ug/L | 500 | 27.63 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 102% | | |
| NAL13026-189MS | Ops Batch 118 | ORG | 91-20-3 | Naphthalene | 5100 | | ug/L | 500 | 56.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 97% | | 260 |
| NAL13026-189MS | Ops Batch 118 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5000 | | ug/L | 500 | 23.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 5000 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 50 | 100% | | |
| NAL13026-189MS | Ops Batch 118 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 50 | 98% | | |
| NAL13026-189MS | Ops Batch 118 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 50 | 96% | | |
| NAL13026-189MS | Ops Batch 118 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8182 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-71-8 | Dichlorodifluoromethane | 650 | | ug/L | 500 | 29.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 13% | 112% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 74-87-3 | Chloromethane | 6700 | | ug/L | 500 | 43.07 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 134% | 31% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-01-4 | Vinyl chloride | 3500 | | ug/L | 200 | 31.86 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 70% | 15% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 74-83-9 | Bromomethane | 5900 | | ug/L | 500 | 50.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 118% | 5% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-00-3 | Chloroethane | 3600 | | ug/L | 500 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 72% | 11% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-69-4 | Trichlorofluoromethane | 4300 | | ug/L | 500 | 19.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 86% | 10% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-35-4 | 1,1-Dichloroethene | 4300 | | ug/L | 100 | 47.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 86% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-09-2 | Methylene chloride | 4700 | | ug/L | 500 | 26.46 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 94% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 67-64-1 | Acetone | 45000 | | ug/L | 1000 | 155.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 300% | 7% | 30000 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4400 | | ug/L | 100 | 55.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 88% | 7% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 106% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 110% | 10% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4800 | | ug/L | 100 | 32.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 74-97-5 | Bromochloromethane | 4900 | | ug/L | 1000 | 81.18 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 98% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 67-66-3 | Chloroform | 4700 | | ug/L | 200 | 41.37 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 94% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4800 | | ug/L | 100 | 15.73 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 4% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 78-93-3 | 2-Butanone | 28000 | | ug/L | 100 | 16.65 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 200% | 7% | 18000 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 4% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 93% | 0% | 37 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 100% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 79-01-6 | Trichloroethene | 5000 | | ug/L | 100 | 36.33 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 100% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 74-95-3 | Dibromomethane | 5100 | | ug/L | 200 | 32.20 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 102% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 98% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 91% | 0% | 40 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6100 | | ug/L | 100 | 20.96 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 112% | 7% | 520 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 100% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 86% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 100% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 104% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 102% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 591-78-6 | 2-Hexanone | 4900 | | ug/L | 200 | 26.49 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 92% | 2% | 280 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 100-41-4 | Ethylbenzene | 4200 | | ug/L | 100 | 25.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 83% | 2% | 35 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 84% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4400 | | ug/L | 200 | 19.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 88% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | XYLMP | p&m-Xylene | 8400 | | ug/L | 200 | 26.14 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 10000 | 83% | 1% | 78 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 87% | 0% | 39 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 87% | 0% | 45 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 106% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 85% | 0% | 34 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 89% | 0% | 40 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-189MSD | Ops Batch 118 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 110% | 4% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 106% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 91% | 0% | 44 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 92% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 91% | 0% | 59 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 91% | 0% | 37 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4800 | | ug/L | 200 | 22.21 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 96% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 94% | 0% | 89 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 100% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 99% | 0% | 49 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 104-51-8 | n-Butylbenzene | 5000 | | ug/L | 500 | 27.81 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 99% | 2% | 52 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5900 | | ug/L | 500 | 159.11 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 118% | 9% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 102% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5100 | | ug/L | 500 | 27.63 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 102% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | ORG | 91-20-3 | Naphthalene | 5500 | | ug/L | 500 | 56.04 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 105% | 8% | 260 |
| NAL13026-189MSD | Ops Batch 118 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5100 | | ug/L | 500 | 23.28 | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 5000 | 102% | 2% | |
| NAL13026-189MSD | Ops Batch 118 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 50 | 100% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 50 | 110% | 12% | |
| NAL13026-189MSD | Ops Batch 118 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 50 | 96% | 0% | |
| NAL13026-189MSD | Ops Batch 118 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/14/2013 | 5/14/2013 | 5/14/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8183 | 50 | 92% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192 | Ops Batch 122 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 67-64-1 | Acetone | 41000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8195 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 78-93-3 | 2-Butanone | 25000 | D | ug/L | 10000 | 811.80 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8195 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 450 | J | ug/L | 500 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 591-78-6 | 2-Hexanone | 210 | J | ug/L | 500 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192 | Ops Batch 122 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 99-87-6 | p-Isopropltoluene | 61 | J | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 91-20-3 | Naphthalene | 210 | JX- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | | | | |
| NAL13026-192 | Ops Batch 122 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | 50 | 104% | | |
| NAL13026-192 | Ops Batch 122 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | 50 | 102% | | |
| NAL13026-192 | Ops Batch 122 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | 50 | 94% | | |
| NAL13026-192 | Ops Batch 122 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8194 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 67-64-1 | Acetone | 38000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8205 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 78-93-3 | 2-Butanone | 23000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8205 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 700 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 591-78-6 | 2-Hexanone | 240 | J | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 100-41-4 | Ethylbenzene | 28 | J | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | XYLMP | p&m-Xylene | 65 | J | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 95-47-6 | o-Xylene | 32 | J | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-193 | Ops Batch 121-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 79 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 130 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 99-87-6 | p-Isopropltoluene | 440 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 91-20-3 | Naphthalene | 320 | JX- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | | | | |
| NAL13026-193 | Ops Batch 121-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | 50 | 100% | | |
| NAL13026-193 | Ops Batch 121-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | 50 | 100% | | |
| NAL13026-193 | Ops Batch 121-MSD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | 50 | 96% | | |
| NAL13026-193 | Ops Batch 121-MSD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8204 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 67-64-1 | Acetone | 94000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8200 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 78-93-3 | 2-Butanone | 58000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8200 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 71-43-2 | Benzene | 48 | J | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1200 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 591-78-6 | 2-Hexanone | 800 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 100-41-4 | Ethylbenzene | 21 | J | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | XYLMP | p&m-Xylene | 59 | J | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 95-47-6 | o-Xylene | 38 | J | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 84 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 190 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 99-87-6 | p-Isopropltoluene | 850 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 104-51-8 | n-Butylbenzene | 54 | J | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 91-20-3 | Naphthalene | 540 | X- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | | | | |
| NAL13026-194 | Ops Batch 123ST-T1 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | 50 | 98% | | |
| NAL13026-194 | Ops Batch 123ST-T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | 50 | 92% | | |
| NAL13026-194 | Ops Batch 123ST-T1 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | 50 | 96% | | |
| NAL13026-194 | Ops Batch 123ST-T1 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8196 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 67-64-1 | Acetone | 81000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8201 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 78-93-3 | 2-Butanone | 52000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8201 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 71-43-2 | Benzene | 150 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 108-88-3 | Toluene | 85 | J | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1500 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 591-78-6 | 2-Hexanone | 670 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 100-41-4 | Ethylbenzene | 110 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | XYLMP | p&m-Xylene | 280 | | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 95-47-6 | o-Xylene | 150 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 98-82-8 | Isopropylbenzene | 66 | J | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 103-65-1 | n-Propylbenzene | 52 | J | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 490 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 135-98-8 | sec-Butylbenzene | 33 | J | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 99-87-6 | p-Isopropltoluene | 2000 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 540 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 104-51-8 | n-Butylbenzene | 130 | J | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 91-20-3 | Naphthalene | 860 | X- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | | | | |
| NAL13026-195 | Ops Batch 123ST-T2 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | 50 | 102% | | |
| NAL13026-195 | Ops Batch 123ST-T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | 50 | 102% | | |
| NAL13026-195 | Ops Batch 123ST-T2 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | 50 | 94% | | |
| NAL13026-195 | Ops Batch 123ST-T2 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8197 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 67-64-1 | Acetone | 110000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8202 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 78-93-3 | 2-Butanone | 72000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8202 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 71-43-2 | Benzene | 1800 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 108-88-3 | Toluene | 1800 | | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3600 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 591-78-6 | 2-Hexanone | 2400 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 100-41-4 | Ethylbenzene | 3200 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | XYLMP | p&m-Xylene | 7500 | | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 95-47-6 | o-Xylene | 3500 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 98-82-8 | Isopropylbenzene | 1900 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 103-65-1 | n-Propylbenzene | 1500 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 3200 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 12000 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 135-98-8 | sec-Butylbenzene | 470 | | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 99-87-6 | p-Isopropltoluene | 52000 | D | ug/L | 2000 | 254.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8202 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 13000 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 104-51-8 | n-Butylbenzene | 1900 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 91-20-3 | Naphthalene | 12000 | X- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | | | | |
| NAL13026-196 | Ops Batch 123ST-T3 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | 50 | 102% | | |
| NAL13026-196 | Ops Batch 123ST-T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | 50 | 102% | | |
| NAL13026-196 | Ops Batch 123ST-T3 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | 50 | 96% | | |
| NAL13026-196 | Ops Batch 123ST-T3 | STD | 460-00-4 | Bromofluorobenzene | 39 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8198 | 50 | 78% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 67-64-1 | Acetone | 97000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8203 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 78-93-3 | 2-Butanone | 63000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8203 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 71-43-2 | Benzene | 1200 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 108-88-3 | Toluene | 1300 | | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3500 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 591-78-6 | 2-Hexanone | 2800 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 100-41-4 | Ethylbenzene | 2100 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | XYLMP | p&m-Xylene | 5100 | | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 95-47-6 | o-Xylene | 2300 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 98-82-8 | Isopropylbenzene | 1300 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 103-65-1 | n-Propylbenzene | 1100 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 2400 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 9500 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 135-98-8 | sec-Butylbenzene | 380 | | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 99-87-6 | p-Isopropltoluene | 78000 | D | ug/L | 2000 | 254.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8203 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 10000 | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 104-51-8 | n-Butylbenzene | 1600 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 91-20-3 | Naphthalene | 9700 | X- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | | | | |
| NAL13026-197 | Ops Batch 123ST-T4 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | 50 | 100% | | |
| NAL13026-197 | Ops Batch 123ST-T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | 50 | 102% | | |
| NAL13026-197 | Ops Batch 123ST-T4 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | 50 | 96% | | |
| NAL13026-197 | Ops Batch 123ST-T4 | STD | 460-00-4 | Bromofluorobenzene | 41 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8199 | 50 | 82% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-198 | Ops Batch 124 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 67-64-1 | Acetone | 59000 | DX- | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8207 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 78-93-3 | 2-Butanone | 36000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8207 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 71-43-2 | Benzene | 43 | J | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 820 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 591-78-6 | 2-Hexanone | 330 | J | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | XYLMP | p&m-Xylene | 53 | J | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 95-47-6 | o-Xylene | 23 | J | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-198 | Ops Batch 124 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 130 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 99-87-6 | p-Isopropltoluene | 630 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 104-51-8 | n-Butylbenzene | 58 | J | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 91-20-3 | Naphthalene | 950 | X- | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | | | | |
| NAL13026-198 | Ops Batch 124 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | 50 | 100% | | |
| NAL13026-198 | Ops Batch 124 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | 50 | 102% | | |
| NAL13026-198 | Ops Batch 124 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | 50 | 96% | | |
| NAL13026-198 | Ops Batch 124 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8206 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 67-64-1 | Acetone | 90000 | D | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8211 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 78-93-3 | 2-Butanone | 59000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8211 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 71-43-2 | Benzene | 1000 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 108-88-3 | Toluene | 890 | | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3000 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 591-78-6 | 2-Hexanone | 1400 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 100-41-4 | Ethylbenzene | 1500 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | XYLMP | p&m-Xylene | 3500 | X- | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 95-47-6 | o-Xylene | 1700 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 100-42-5 | Styrene | 220 | | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 98-82-8 | Isopropylbenzene | 920 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 103-65-1 | n-Propylbenzene | 680 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 1600 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 6200 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 99-87-6 | p-Isopropltoluene | 43000 | D | ug/L | 2000 | 254.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8211 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 106-46-7 | 1,4-Dichlorobenzene | 6600 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 104-51-8 | n-Butylbenzene | 950 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 91-20-3 | Naphthalene | 6200 | | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | | | | |
| NAL13026-199 | Ops Batch 123ST-3R | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | 50 | 102% | | |
| NAL13026-199 | Ops Batch 123ST-3R | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | 50 | 102% | | |
| NAL13026-199 | Ops Batch 123ST-3R | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | 50 | 96% | | |
| NAL13026-199 | Ops Batch 123ST-3R | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8210 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 67-64-1 | Acetone | 110000 | D | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8213 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 78-93-3 | 2-Butanone | 67000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8213 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 71-43-2 | Benzene | 900 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 108-88-3 | Toluene | 900 | | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2800 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 591-78-6 | 2-Hexanone | 1300 | | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 100-41-4 | Ethylbenzene | 1500 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | XYLMP | p&m-Xylene | 3600 | X- | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 95-47-6 | o-Xylene | 1700 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 98-82-8 | Isopropylbenzene | 950 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 103-65-1 | n-Propylbenzene | 710 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 1700 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 6800 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 99-87-6 | p-Isopropltoluene | 72000 | D | ug/L | 2000 | 254.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8213 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 106-46-7 | 1,4-Dichlorobenzene | 7300 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 104-51-8 | n-Butylbenzene | 1100 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 91-20-3 | Naphthalene | 6300 | | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | | | | |
| NAL13026-200 | Ops Batch 123ST-4R | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | 50 | 100% | | |
| NAL13026-200 | Ops Batch 123ST-4R | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | 50 | 100% | | |
| NAL13026-200 | Ops Batch 123ST-4R | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | 50 | 96% | | |
| NAL13026-200 | Ops Batch 123ST-4R | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8212 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-201 | Ops Batch 125 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 67-64-1 | Acetone | 32000 | D | ug/L | 10000 | 1556.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8215 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 78-93-3 | 2-Butanone | 20000 | D | ug/L | 10000 | 166.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8215 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 71-43-2 | Benzene | 38 | J | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 630 | | ug/L | 500 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 591-78-6 | 2-Hexanone | 260 | J | ug/L | 500 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 100-41-4 | Ethylbenzene | 30 | J | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | XYLMP | p&m-Xylene | 70 | JX- | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-201 | Ops Batch 125 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 57 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 99-87-6 | p-Isopropltoluene | 800 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 91-20-3 | Naphthalene | 540 | | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | | | | |
| NAL13026-201 | Ops Batch 125 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | 50 | 98% | | |
| NAL13026-201 | Ops Batch 125 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | 50 | 98% | | |
| NAL13026-201 | Ops Batch 125 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | 50 | 96% | | |
| NAL13026-201 | Ops Batch 125 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8214 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513CCVA | J051513CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 32 | | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 64% | | |
| J051513CCVA | J051513CCVA | ORG | 74-87-3 | Chloromethane | 46 | | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 75-01-4 | Vinyl chloride | 27 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 54% | | |
| J051513CCVA | J051513CCVA | ORG | 74-83-9 | Bromomethane | 51 | | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 102% | | |
| J051513CCVA | J051513CCVA | ORG | 75-00-3 | Chloroethane | 42 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 33 | | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 66% | | |
| J051513CCVA | J051513CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 40 | | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 80% | | |
| J051513CCVA | J051513CCVA | ORG | 75-09-2 | Methylene chloride | 42 | | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | 67-64-1 | Acetone | 38 | | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 76% | | |
| J051513CCVA | J051513CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 110% | | |
| J051513CCVA | J051513CCVA | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 108% | | |
| J051513CCVA | J051513CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 54 | | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 108% | | |
| J051513CCVA | J051513CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 74-97-5 | Bromochloromethane | 46 | | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 67-66-3 | Chloroform | 46 | | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 78-93-3 | 2-Butanone | 46 | | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 98% | | |
| J051513CCVA | J051513CCVA | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 94% | | |
| J051513CCVA | J051513CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 45 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 100% | | |
| J051513CCVA | J051513CCVA | ORG | 74-95-3 | Dibromomethane | 46 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 98% | | |
| J051513CCVA | J051513CCVA | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 98% | | |
| J051513CCVA | J051513CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 118% | | |
| J051513CCVA | J051513CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 78% | | |
| J051513CCVA | J051513CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 45 | | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 45 | | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | ORG | 591-78-6 | 2-Hexanone | 51 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 102% | | |
| J051513CCVA | J051513CCVA | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 82% | | |
| J051513CCVA | J051513CCVA | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 80% | | |
| J051513CCVA | J051513CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | XYLMP | p&m-Xylene | 81 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 100 | 81% | | |
| J051513CCVA | J051513CCVA | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | 75-25-2 | Bromoform | 44 | | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |
| J051513CCVA | J051513CCVA | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 84% | | |
| J051513CCVA | J051513CCVA | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513CCVA | J051513CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 44 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |
| J051513CCVA | J051513CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |
| J051513CCVA | J051513CCVA | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |
| J051513CCVA | J051513CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 88% | | |
| J051513CCVA | J051513CCVA | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 92% | | |
| J051513CCVA | J051513CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 94% | | |
| J051513CCVA | J051513CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 98% | | |
| J051513CCVA | J051513CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 40 | | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 80% | | |
| J051513CCVA | J051513CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 106% | | |
| J051513CCVA | J051513CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 98% | | |
| J051513CCVA | J051513CCVA | ORG | 91-20-3 | Naphthalene | 39 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 78% | | |
| J051513CCVA | J051513CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | STD | 1868-53-7 | Dibromofluoromethane | 48 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 96% | | |
| J051513CCVA | J051513CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |
| J051513CCVA | J051513CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 94% | | |
| J051513CCVA | J051513CCVA | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8192 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513MBKA | J051513MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513MBKA | J051513MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | | | | |
| J051513MBKA | J051513MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | 50 | 102% | | |
| J051513MBKA | J051513MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | 50 | 104% | | |
| J051513MBKA | J051513MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | 50 | 96% | | |
| J051513MBKA | J051513MBKA | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8193 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513CCVB | J051513CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 3.2 | | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 6% | | |
| J051513CCVB | J051513CCVB | ORG | 74-87-3 | Chloromethane | 21 | | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 42% | | |
| J051513CCVB | J051513CCVB | ORG | 75-01-4 | Vinyl chloride | 21 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 42% | | |
| J051513CCVB | J051513CCVB | ORG | 74-83-9 | Bromomethane | 43 | | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 86% | | |
| J051513CCVB | J051513CCVB | ORG | 75-00-3 | Chloroethane | 31 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 62% | | |
| J051513CCVB | J051513CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 30 | | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 60% | | |
| J051513CCVB | J051513CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 33 | | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 66% | | |
| J051513CCVB | J051513CCVB | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 86% | | |
| J051513CCVB | J051513CCVB | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 100% | | |
| J051513CCVB | J051513CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 44 | | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | 1634-04-4 | MTBE | 57 | | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 114% | | |
| J051513CCVB | J051513CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 104% | | |
| J051513CCVB | J051513CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 92% | | |
| J051513CCVB | J051513CCVB | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 100% | | |
| J051513CCVB | J051513CCVB | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 94% | | |
| J051513CCVB | J051513CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 118% | | |
| J051513CCVB | J051513CCVB | ORG | 56-23-5 | Carbon tetrachloride | 46 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 92% | | |
| J051513CCVB | J051513CCVB | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 92% | | |
| J051513CCVB | J051513CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 94% | | |
| J051513CCVB | J051513CCVB | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 100% | | |
| J051513CCVB | J051513CCVB | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 98% | | |
| J051513CCVB | J051513CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 48 | | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 92% | | |
| J051513CCVB | J051513CCVB | ORG | 108-88-3 | Toluene | 43 | | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 86% | | |
| J051513CCVB | J051513CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 116% | | |
| J051513CCVB | J051513CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 127-18-4 | Tetrachloroethene | 55 | | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 110% | | |
| J051513CCVB | J051513CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 94% | | |
| J051513CCVB | J051513CCVB | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 102% | | |
| J051513CCVB | J051513CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 102% | | |
| J051513CCVB | J051513CCVB | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 110% | | |
| J051513CCVB | J051513CCVB | ORG | 100-41-4 | Ethylbenzene | 40 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 80% | | |
| J051513CCVB | J051513CCVB | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 80% | | |
| J051513CCVB | J051513CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | XYLMP | p&m-Xylene | 77 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 100 | 77% | | |
| J051513CCVB | J051513CCVB | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 84% | | |
| J051513CCVB | J051513CCVB | ORG | 100-42-5 | Styrene | 41 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 82% | | |
| J051513CCVB | J051513CCVB | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 106% | | |
| J051513CCVB | J051513CCVB | ORG | 98-82-8 | Isopropylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 80% | | |
| J051513CCVB | J051513CCVB | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 84% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513CCVB | J051513CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 106% | | |
| J051513CCVB | J051513CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 53 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 106% | | |
| J051513CCVB | J051513CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 86% | | |
| J051513CCVB | J051513CCVB | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | 135-98-8 | sec-Butylbenzene | 43 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 86% | | |
| J051513CCVB | J051513CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 90% | | |
| J051513CCVB | J051513CCVB | ORG | 99-87-6 | p-Isopropltoluene | 44 | | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 88% | | |
| J051513CCVB | J051513CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 92% | | |
| J051513CCVB | J051513CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 57 | | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 114% | | |
| J051513CCVB | J051513CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 100% | | |
| J051513CCVB | J051513CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | ORG | 91-20-3 | Naphthalene | 50 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 100% | | |
| J051513CCVB | J051513CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 96% | | |
| J051513CCVB | J051513CCVB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 102% | | |
| J051513CCVB | J051513CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 102% | | |
| J051513CCVB | J051513CCVB | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 94% | | |
| J051513CCVB | J051513CCVB | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8208 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513MBKB | J051513MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513MBKB | J051513MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | | | | |
| J051513MBKB | J051513MBKB | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | 50 | 106% | | |
| J051513MBKB | J051513MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | 50 | 108% | | |
| J051513MBKB | J051513MBKB | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | 50 | 96% | | |
| J051513MBKB | J051513MBKB | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8209 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513ALCS | J051513ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 14 | | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 28% | | |
| J051513ALCS | J051513ALCS | ORG | 74-87-3 | Chloromethane | 16 | | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 32% | | |
| J051513ALCS | J051513ALCS | ORG | 75-01-4 | Vinyl chloride | 23 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 46% | | |
| J051513ALCS | J051513ALCS | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 82% | | |
| J051513ALCS | J051513ALCS | ORG | 75-00-3 | Chloroethane | 31 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 62% | | |
| J051513ALCS | J051513ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 34 | | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 68% | | |
| J051513ALCS | J051513ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 36 | | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 72% | | |
| J051513ALCS | J051513ALCS | ORG | 75-09-2 | Methylene chloride | 46 | | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 67-64-1 | Acetone | 45 | | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 90% | | |
| J051513ALCS | J051513ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 90% | | |
| J051513ALCS | J051513ALCS | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 108% | | |
| J051513ALCS | J051513ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 110% | | |
| J051513ALCS | J051513ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 104% | | |
| J051513ALCS | J051513ALCS | ORG | 67-66-3 | Chloroform | 49 | | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 78-93-3 | 2-Butanone | 50 | | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |
| J051513ALCS | J051513ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 49 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 106% | | |
| J051513ALCS | J051513ALCS | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |
| J051513ALCS | J051513ALCS | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 50 | | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |
| J051513ALCS | J051513ALCS | ORG | 127-18-4 | Tetrachloroethene | 63 | | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 126% | | |
| J051513ALCS | J051513ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |
| J051513ALCS | J051513ALCS | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 102% | | |
| J051513ALCS | J051513ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 591-78-6 | 2-Hexanone | 46 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 84% | | |
| J051513ALCS | J051513ALCS | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 86% | | |
| J051513ALCS | J051513ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 90% | | |
| J051513ALCS | J051513ALCS | ORG | XYLMP | p&m-Xylene | 83 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 100 | 83% | | |
| J051513ALCS | J051513ALCS | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 86% | | |
| J051513ALCS | J051513ALCS | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 86% | | |
| J051513ALCS | J051513ALCS | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 104% | | |
| J051513ALCS | J051513ALCS | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 86% | | |
| J051513ALCS | J051513ALCS | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513ALCS | J051513ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 90% | | |
| J051513ALCS | J051513ALCS | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 90% | | |
| J051513ALCS | J051513ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |
| J051513ALCS | J051513ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 102% | | |
| J051513ALCS | J051513ALCS | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 96% | | |
| J051513ALCS | J051513ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 96% | | |
| J051513ALCS | J051513ALCS | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 92% | | |
| J051513ALCS | J051513ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 96% | | |
| J051513ALCS | J051513ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 100% | | |
| J051513ALCS | J051513ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 98% | | |
| J051513ALCS | J051513ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 96% | | |
| J051513ALCS | J051513ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8216 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513ALCD | J051513ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 15 | | ug/L | 5 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 30% | 7% | |
| J051513ALCD | J051513ALCD | ORG | 74-87-3 | Chloromethane | 18 | | ug/L | 5 | 0.43 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 36% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 75-01-4 | Vinyl chloride | 27 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 54% | 16% | |
| J051513ALCD | J051513ALCD | ORG | 74-83-9 | Bromomethane | 33 | | ug/L | 5 | 0.50 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 66% | 22% | |
| J051513ALCD | J051513ALCD | ORG | 75-00-3 | Chloroethane | 32 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 64% | 3% | |
| J051513ALCD | J051513ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 35 | | ug/L | 5 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 70% | 3% | |
| J051513ALCD | J051513ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 35 | | ug/L | 1 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 70% | 3% | |
| J051513ALCD | J051513ALCD | ORG | 75-09-2 | Methylene chloride | 40 | | ug/L | 5 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 14% | |
| J051513ALCD | J051513ALCD | ORG | 67-64-1 | Acetone | 42 | | ug/L | 10 | 1.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 84% | 7% | |
| J051513ALCD | J051513ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 112% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 16% | |
| J051513ALCD | J051513ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 42 | | ug/L | 1 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 84% | 15% | |
| J051513ALCD | J051513ALCD | ORG | 74-97-5 | Bromochloromethane | 45 | | ug/L | 10 | 0.81 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 90% | 14% | |
| J051513ALCD | J051513ALCD | ORG | 67-66-3 | Chloroform | 44 | | ug/L | 2 | 0.41 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 43 | | ug/L | 1 | 0.16 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 78-93-3 | 2-Butanone | 49 | | ug/L | 1 | 0.17 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 98% | 2% | |
| J051513ALCD | J051513ALCD | ORG | 56-23-5 | Carbon tetrachloride | 43 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 71-43-2 | Benzene | 40 | | ug/L | 1 | 0.14 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 16% | |
| J051513ALCD | J051513ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 44 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 79-01-6 | Trichloroethene | 47 | | ug/L | 1 | 0.36 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 74-95-3 | Dibromomethane | 44 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 43 | | ug/L | 1 | 0.18 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 75-27-4 | Bromodichloromethane | 45 | | ug/L | 2 | 0.12 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 90% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 43 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 9% | |
| J051513ALCD | J051513ALCD | ORG | 108-88-3 | Toluene | 41 | | ug/L | 5 | 0.74 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 82% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 48 | | ug/L | 1 | 0.21 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 96% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 44 | | ug/L | 1 | 0.31 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 7% | |
| J051513ALCD | J051513ALCD | ORG | 127-18-4 | Tetrachloroethene | 56 | | ug/L | 1 | 0.49 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 112% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 44 | | ug/L | 1 | 0.34 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 7% | |
| J051513ALCD | J051513ALCD | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 8% | |
| J051513ALCD | J051513ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 46 | | ug/L | 2 | 0.30 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 92% | 8% | |
| J051513ALCD | J051513ALCD | ORG | 591-78-6 | 2-Hexanone | 43 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 7% | |
| J051513ALCD | J051513ALCD | ORG | 100-41-4 | Ethylbenzene | 37 | | ug/L | 1 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 74% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 108-90-7 | Chlorobenzene | 37 | | ug/L | 1 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 74% | 15% | |
| J051513ALCD | J051513ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 40 | | ug/L | 2 | 0.19 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 12% | |
| J051513ALCD | J051513ALCD | ORG | XYLMP | p&m-Xylene | 73 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 100 | 73% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 95-47-6 | o-Xylene | 39 | | ug/L | 1 | 0.13 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 78% | 10% | |
| J051513ALCD | J051513ALCD | ORG | 100-42-5 | Styrene | 38 | | ug/L | 1 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 76% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 10% | |
| J051513ALCD | J051513ALCD | ORG | 98-82-8 | Isopropylbenzene | 37 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 74% | 15% | |
| J051513ALCD | J051513ALCD | ORG | 103-65-1 | n-Propylbenzene | 39 | | ug/L | 2 | 0.27 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 78% | 12% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051513ALCD | J051513ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 98-06-6 | tert-Butylbenzene | 40 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 14% | |
| J051513ALCD | J051513ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 12% | |
| J051513ALCD | J051513ALCD | ORG | 135-98-8 | sec-Butylbenzene | 40 | | ug/L | 2 | 0.32 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 80% | 14% | |
| J051513ALCD | J051513ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 42 | | ug/L | 2 | 0.22 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 84% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 99-87-6 | p-Isopropltoluene | 41 | | ug/L | 2 | 0.25 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 82% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 45 | | ug/L | 2 | 0.26 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 90% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 104-51-8 | n-Butylbenzene | 42 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 84% | 13% | |
| J051513ALCD | J051513ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 102% | 2% | |
| J051513ALCD | J051513ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 46 | | ug/L | 5 | 0.65 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 92% | 8% | |
| J051513ALCD | J051513ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 43 | | ug/L | 5 | 0.28 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 86% | 11% | |
| J051513ALCD | J051513ALCD | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 88% | 4% | |
| J051513ALCD | J051513ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 84% | 13% | |
| J051513ALCD | J051513ALCD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 100% | 0% | |
| J051513ALCD | J051513ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 110% | 12% | |
| J051513ALCD | J051513ALCD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 94% | 2% | |
| J051513ALCD | J051513ALCD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/15/2013 | 5/15/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8217 | 50 | 92% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192MS | Ops Batch 122 | ORG | 75-71-8 | Dichlorodifluoromethane | 1800 | | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 36% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 74-87-3 | Chloromethane | 3300 | | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 66% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-01-4 | Vinyl chloride | 2300 | | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 46% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 74-83-9 | Bromomethane | 3900 | | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 78% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-00-3 | Chloroethane | 3300 | | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 66% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-69-4 | Trichlorofluoromethane | 3400 | | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 68% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-35-4 | 1,1-Dichloroethene | 4100 | | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 82% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-09-2 | Methylene chloride | 4800 | | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 96% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 67-64-1 | Acetone | 39000 | | ug/L | 1000 | 155.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | -40% | | 41000 |
| NAL13026-192MS | Ops Batch 122 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5800 | | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 116% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 1634-04-4 | MTBE | 6200 | | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 124% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-34-3 | 1,1-Dichloroethane | 5600 | | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 112% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 100% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 74-97-5 | Bromochloromethane | 5200 | | ug/L | 1000 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 104% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 104% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | -20% | | 25000 |
| NAL13026-192MS | Ops Batch 122 | ORG | 56-23-5 | Carbon tetrachloride | 5100 | | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 71-43-2 | Benzene | 4900 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 98% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 106% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 79-01-6 | Trichloroethene | 5400 | | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 108% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 74-95-3 | Dibromomethane | 5200 | | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 104% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 78-87-5 | 1,2-Dichloropropane | 5100 | | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 96% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 108-88-3 | Toluene | 4700 | | ug/L | 500 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 94% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 97% | | 450 |
| NAL13026-192MS | Ops Batch 122 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 98% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 127-18-4 | Tetrachloroethene | 5500 | | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 110% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 108% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 104% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 591-78-6 | 2-Hexanone | 3700 | | ug/L | 200 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 70% | | 210 |
| NAL13026-192MS | Ops Batch 122 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 86% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 108-90-7 | Chlorobenzene | 4300 | | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 86% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4600 | | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 92% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | XYLMP | p&m-Xylene | 8500 | | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 10000 | 85% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 90% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 88% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 110% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 86% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192MS | Ops Batch 122 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5400 | | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 108% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 90% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 92% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 92% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 92% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 94% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 93% | | 61 |
| NAL13026-192MS | Ops Batch 122 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 100% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 104% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 96% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5900 | | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 118% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 100% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 98% | | |
| NAL13026-192MS | Ops Batch 122 | ORG | 91-20-3 | Naphthalene | 5300 | | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 102% | | 210 |
| NAL13026-192MS | Ops Batch 122 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 5000 | 98% | | |
| NAL13026-192MS | Ops Batch 122 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 50 | 100% | | |
| NAL13026-192MS | Ops Batch 122 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 57 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 50 | 114% | | |
| NAL13026-192MS | Ops Batch 122 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 50 | 94% | | |
| NAL13026-192MS | Ops Batch 122 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8218 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-71-8 | Dichlorodifluoromethane | 720 | | ug/L | 500 | 29.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 14% | 86% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 74-87-3 | Chloromethane | 2900 | | ug/L | 500 | 43.07 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 58% | 13% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-01-4 | Vinyl chloride | 2300 | | ug/L | 200 | 31.86 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 46% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 74-83-9 | Bromomethane | 4400 | | ug/L | 500 | 50.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 88% | 12% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-00-3 | Chloroethane | 3900 | | ug/L | 500 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 78% | 17% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-69-4 | Trichlorofluoromethane | 3400 | | ug/L | 500 | 19.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 68% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-35-4 | 1,1-Dichloroethene | 4000 | | ug/L | 100 | 47.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 80% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-09-2 | Methylene chloride | 4600 | | ug/L | 500 | 26.46 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 92% | 4% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 67-64-1 | Acetone | 43000 | | ug/L | 1000 | 155.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 40% | 10% | 41000 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 110% | 5% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 1634-04-4 | MTBE | 6800 | | ug/L | 500 | 61.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 136% | 9% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 110% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 98% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 74-97-5 | Bromochloromethane | 5200 | | ug/L | 1000 | 81.18 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 104% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 67-66-3 | Chloroform | 5000 | | ug/L | 200 | 41.37 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 100% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5100 | | ug/L | 100 | 15.73 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 102% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 78-93-3 | 2-Butanone | 26000 | | ug/L | 100 | 16.65 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 20% | 8% | 25000 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 100% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 71-43-2 | Benzene | 4800 | | ug/L | 100 | 13.53 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 96% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 106% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 79-01-6 | Trichloroethene | 5200 | | ug/L | 100 | 36.33 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 104% | 4% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 74-95-3 | Dibromomethane | 5300 | | ug/L | 200 | 32.20 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 106% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 100% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 102% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 94% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 92% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5600 | | ug/L | 100 | 20.96 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 103% | 6% | 450 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 98% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 127-18-4 | Tetrachloroethene | 5500 | | ug/L | 100 | 48.56 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 110% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 100% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 108% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 106% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 78% | 10% | 210 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 100-41-4 | Ethylbenzene | 4100 | | ug/L | 100 | 25.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 82% | 5% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 84% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4600 | | ug/L | 200 | 19.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 92% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | XYLMP | p&m-Xylene | 8300 | | ug/L | 200 | 26.14 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 10000 | 83% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 88% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 88% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 110% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 98-82-8 | Isopropylbenzene | 4200 | | ug/L | 200 | 20.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 84% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 103-65-1 | n-Propylbenzene | 4400 | | ug/L | 200 | 27.00 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 88% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-192MSD | Ops Batch 122 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 110% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 106% | 4% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 90% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 98-06-6 | tert-Butylbenzene | 4500 | | ug/L | 200 | 32.61 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 90% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 90% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 135-98-8 | sec-Butylbenzene | 4500 | | ug/L | 200 | 32.34 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 90% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4600 | | ug/L | 200 | 22.21 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 92% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 99-87-6 | p-Isopropltoluene | 4600 | | ug/L | 200 | 25.48 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 91% | 2% | 61 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 98% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 102% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 96% | 0% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6000 | | ug/L | 500 | 159.11 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 120% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 102% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4800 | | ug/L | 500 | 27.63 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 96% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 100% | 2% | 210 |
| NAL13026-192MSD | Ops Batch 122 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 5000 | 94% | 4% | 0 |
| NAL13026-192MSD | Ops Batch 122 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 50 | 104% | 4% | 0 |
| NAL13026-192MSD | Ops Batch 122 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 50 | 104% | 9% | 0 |
| NAL13026-192MSD | Ops Batch 122 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 50 | 96% | 2% | 0 |
| NAL13026-192MSD | Ops Batch 122 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/15/2013 | 5/15/2013 | 5/15/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8219 | 50 | 94% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202 | Ops Batch 126 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 67-64-1 | Acetone | 47000 | D | ug/L | 10000 | 1556.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8225 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 78-93-3 | 2-Butanone | 29000 | D | ug/L | 10000 | 811.80 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8225 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 71-43-2 | Benzene | 93 | J | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 108-88-3 | Toluene | 60 | J | ug/L | 100 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 640 | X+ | ug/L | 500 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 591-78-6 | 2-Hexanone | 300 | J | ug/L | 500 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 100-41-4 | Ethylbenzene | 78 | JX- | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | XYLMP | p&m-Xylene | 190 | JX- | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 95-47-6 | o-Xylene | 100 | | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 98-82-8 | Isopropylbenzene | 68 | J | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 103-65-1 | n-Propylbenzene | 69 | J | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202 | Ops Batch 126 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 130 | J | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 470 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 135-98-8 | sec-Butylbenzene | 54 | J | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 99-87-6 | p-Isopropltoluene | 2800 | | ug/L | 200 | 25.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 560 | | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 104-51-8 | n-Butylbenzene | 160 | J | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 64 | J | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 91-20-3 | Naphthalene | 1000 | | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | | | | |
| NAL13026-202 | Ops Batch 126 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | 50 | 104% | | |
| NAL13026-202 | Ops Batch 126 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | 50 | 104% | | |
| NAL13026-202 | Ops Batch 126 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | 50 | 94% | | |
| NAL13026-202 | Ops Batch 126 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8224 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 67-64-1 | Acetone | 89000 | D | ug/L | 10000 | 1556.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8228 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 78-93-3 | 2-Butanone | 63000 | D | ug/L | 10000 | 166.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8228 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 71-43-2 | Benzene | 670 | | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 108-88-3 | Toluene | 1300 | | ug/L | 100 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3000 | X+ | ug/L | 500 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 591-78-6 | 2-Hexanone | 2000 | | ug/L | 500 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 100-41-4 | Ethylbenzene | 2800 | X- | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 108-90-7 | Chlorobenzene | 130 | X- | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | XYLMP | p&m-Xylene | 6600 | X- | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 95-47-6 | o-Xylene | 3200 | | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 100-42-5 | Styrene | 400 | | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 98-82-8 | Isopropylbenzene | 1900 | | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 103-65-1 | n-Propylbenzene | 1500 | | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 3200 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 12000 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 135-98-8 | sec-Butylbenzene | 520 | | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 99-87-6 | p-Isopropltoluene | 64000 | D | ug/L | 2000 | 254.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8228 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 106-46-7 | 1,4-Dichlorobenzene | 13000 | | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 104-51-8 | n-Butylbenzene | 1900 | | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 91-20-3 | Naphthalene | 13000 | | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | | | | |
| NAL13026-203 | Ops Batch 123ST-3RR | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | 50 | 102% | | |
| NAL13026-203 | Ops Batch 123ST-3RR | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | 50 | 108% | | |
| NAL13026-203 | Ops Batch 123ST-3RR | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | 50 | 94% | | |
| NAL13026-203 | Ops Batch 123ST-3RR | STD | 460-00-4 | Bromofluorobenzene | 43 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8226 | 50 | 86% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 67-64-1 | Acetone | 91000 | D | ug/L | 10000 | 1556.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8229 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 78-93-3 | 2-Butanone | 56000 | D | ug/L | 10000 | 166.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8229 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 71-43-2 | Benzene | 200 | | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 108-88-3 | Toluene | 660 | | ug/L | 100 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2400 | X+ | ug/L | 500 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 591-78-6 | 2-Hexanone | 2500 | | ug/L | 500 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 100-41-4 | Ethylbenzene | 1700 | X- | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | XYLMP | p&m-Xylene | 4200 | X- | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 95-47-6 | o-Xylene | 2000 | | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 100-42-5 | Styrene | 270 | | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 98-82-8 | Isopropylbenzene | 1300 | | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 103-65-1 | n-Propylbenzene | 1100 | | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 2400 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 9600 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 135-98-8 | sec-Butylbenzene | 400 | | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 99-87-6 | p-Isopropltoluene | 62000 | D | ug/L | 2000 | 254.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8229 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 106-46-7 | 1,4-Dichlorobenzene | 10000 | | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 104-51-8 | n-Butylbenzene | 1600 | | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 91-20-3 | Naphthalene | 10000 | | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | | | | |
| NAL13026-204 | Ops Batch 123ST-4RR | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | 50 | 102% | | |
| NAL13026-204 | Ops Batch 123ST-4RR | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | 50 | 106% | | |
| NAL13026-204 | Ops Batch 123ST-4RR | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | 50 | 96% | | |
| NAL13026-204 | Ops Batch 123ST-4RR | STD | 460-00-4 | Bromofluorobenzene | 39 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8227 | 50 | 78% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-205 | Ops Batch 127 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 67-64-1 | Acetone | 62000 | D | ug/L | 10000 | 1556.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8231 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 78-93-3 | 2-Butanone | 35000 | D | ug/L | 10000 | 166.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8231 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 71-43-2 | Benzene | 39 | J | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 570 | X+ | ug/L | 500 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 591-78-6 | 2-Hexanone | 240 | J | ug/L | 500 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 100-41-4 | Ethylbenzene | | UX- | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | XYLMP | p&m-Xylene | | UX- | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-205 | Ops Batch 127 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 33 | J | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 69 | J | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 99-87-6 | p-Isopropltoluene | 320 | | ug/L | 200 | 25.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 104-51-8 | n-Butylbenzene | 32 | J | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 91-20-3 | Naphthalene | 350 | J | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | | | | |
| NAL13026-205 | Ops Batch 127 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | 50 | 100% | | |
| NAL13026-205 | Ops Batch 127 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | 50 | 98% | | |
| NAL13026-205 | Ops Batch 127 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | 50 | 94% | | |
| NAL13026-205 | Ops Batch 127 | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8230 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 74-87-3 | Chloromethane | | UX- | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-01-4 | Vinyl chloride | | UX- | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | UX- | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 67-64-1 | Acetone | 44000 | D | ug/L | 10000 | 1556.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8241 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 78-93-3 | 2-Butanone | 27000 | D | ug/L | 10000 | 166.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8241 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 490 | J | ug/L | 500 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | XYLMP | p&m-Xylene | 66 | J | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 95-47-6 | o-Xylene | 26 | J | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 100-42-5 | Styrene | 48 | J | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 98-82-8 | Isopropylbenzene | 28 | J | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 103-65-1 | n-Propylbenzene | 42 | J | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-206 | Ops Batch 128-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 52 | J | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 135-98-8 | sec-Butylbenzene | 37 | J | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 99-87-6 | p-Isopropltoluene | 400 | | ug/L | 200 | 25.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 130 | J | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 28 | J | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 104-51-8 | n-Butylbenzene | 81 | J | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 91-20-3 | Naphthalene | 460 | J | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | | | | |
| NAL13026-206 | Ops Batch 128-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | 50 | 104% | | |
| NAL13026-206 | Ops Batch 128-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | 50 | 102% | | |
| NAL13026-206 | Ops Batch 128-MSD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | 50 | 94% | | |
| NAL13026-206 | Ops Batch 128-MSD | STD | 460-00-4 | Bromofluorobenzene | 44 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8240 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613CCVA | J051613CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 1.0 | | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 2% | | |
| J051613CCVA | J051613CCVA | ORG | 74-87-3 | Chloromethane | 26 | | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 52% | | |
| J051613CCVA | J051613CCVA | ORG | 75-01-4 | Vinyl chloride | 22 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 44% | | |
| J051613CCVA | J051613CCVA | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 82% | | |
| J051613CCVA | J051613CCVA | ORG | 75-00-3 | Chloroethane | 33 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 66% | | |
| J051613CCVA | J051613CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 31 | | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 62% | | |
| J051613CCVA | J051613CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 39 | | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 78% | | |
| J051613CCVA | J051613CCVA | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 86% | | |
| J051613CCVA | J051613CCVA | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 108% | | |
| J051613CCVA | J051613CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 104% | | |
| J051613CCVA | J051613CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 114% | | |
| J051613CCVA | J051613CCVA | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 98% | | |
| J051613CCVA | J051613CCVA | ORG | 71-43-2 | Benzene | 45 | | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 90% | | |
| J051613CCVA | J051613CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 48 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 100% | | |
| J051613CCVA | J051613CCVA | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 46 | | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 92% | | |
| J051613CCVA | J051613CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 90% | | |
| J051613CCVA | J051613CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 63 | | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 126% | | |
| J051613CCVA | J051613CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 98% | | |
| J051613CCVA | J051613CCVA | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 78% | | |
| J051613CCVA | J051613CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 100% | | |
| J051613CCVA | J051613CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 112% | | |
| J051613CCVA | J051613CCVA | ORG | 100-41-4 | Ethylbenzene | 39 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 78% | | |
| J051613CCVA | J051613CCVA | ORG | 108-90-7 | Chlorobenzene | 39 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 78% | | |
| J051613CCVA | J051613CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 84% | | |
| J051613CCVA | J051613CCVA | ORG | XYLMP | p&m-Xylene | 79 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 100 | 79% | | |
| J051613CCVA | J051613CCVA | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 82% | | |
| J051613CCVA | J051613CCVA | ORG | 100-42-5 | Styrene | 41 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 82% | | |
| J051613CCVA | J051613CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 98-82-8 | Isopropylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 80% | | |
| J051613CCVA | J051613CCVA | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 84% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613CCVA | J051613CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 100% | | |
| J051613CCVA | J051613CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 98% | | |
| J051613CCVA | J051613CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 84% | | |
| J051613CCVA | J051613CCVA | ORG | 98-06-6 | tert-Butylbenzene | 42 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 84% | | |
| J051613CCVA | J051613CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 86% | | |
| J051613CCVA | J051613CCVA | ORG | 135-98-8 | sec-Butylbenzene | 43 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 86% | | |
| J051613CCVA | J051613CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 90% | | |
| J051613CCVA | J051613CCVA | ORG | 99-87-6 | p-Isopropltoluene | 43 | | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 86% | | |
| J051613CCVA | J051613CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 92% | | |
| J051613CCVA | J051613CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 92% | | |
| J051613CCVA | J051613CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 100% | | |
| J051613CCVA | J051613CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 100% | | |
| J051613CCVA | J051613CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 96% | | |
| J051613CCVA | J051613CCVA | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 88% | | |
| J051613CCVA | J051613CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 92% | | |
| J051613CCVA | J051613CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 102% | | |
| J051613CCVA | J051613CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 98% | | |
| J051613CCVA | J051613CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 94% | | |
| J051613CCVA | J051613CCVA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8222 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613MBKA | J051613MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613MBKA | J051613MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | | | | |
| J051613MBKA | J051613MBKA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | 50 | 104% | | |
| J051613MBKA | J051613MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | 50 | 108% | | |
| J051613MBKA | J051613MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | 50 | 94% | | |
| J051613MBKA | J051613MBKA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8223 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613CCVB | J051613CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 7.2 | | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 14% | | |
| J051613CCVB | J051613CCVB | ORG | 74-87-3 | Chloromethane | 27 | | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 54% | | |
| J051613CCVB | J051613CCVB | ORG | 75-01-4 | Vinyl chloride | 20 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 40% | | |
| J051613CCVB | J051613CCVB | ORG | 74-83-9 | Bromomethane | 46 | | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 75-00-3 | Chloroethane | 27 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 54% | | |
| J051613CCVB | J051613CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 29 | | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 58% | | |
| J051613CCVB | J051613CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 38 | | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 76% | | |
| J051613CCVB | J051613CCVB | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 86% | | |
| J051613CCVB | J051613CCVB | ORG | 67-64-1 | Acetone | 43 | | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 86% | | |
| J051613CCVB | J051613CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 108% | | |
| J051613CCVB | J051613CCVB | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 112% | | |
| J051613CCVB | J051613CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 106% | | |
| J051613CCVB | J051613CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 67-66-3 | Chloroform | 49 | | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 102% | | |
| J051613CCVB | J051613CCVB | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 104% | | |
| J051613CCVB | J051613CCVB | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 46 | | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 96% | | |
| J051613CCVB | J051613CCVB | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 114% | | |
| J051613CCVB | J051613CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 96% | | |
| J051613CCVB | J051613CCVB | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 78% | | |
| J051613CCVB | J051613CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 591-78-6 | 2-Hexanone | 49 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 84% | | |
| J051613CCVB | J051613CCVB | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 82% | | |
| J051613CCVB | J051613CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 88% | | |
| J051613CCVB | J051613CCVB | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 100 | 82% | | |
| J051613CCVB | J051613CCVB | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 84% | | |
| J051613CCVB | J051613CCVB | ORG | 100-42-5 | Styrene | 42 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 84% | | |
| J051613CCVB | J051613CCVB | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 84% | | |
| J051613CCVB | J051613CCVB | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613CCVB | J051613CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 45 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 90% | | |
| J051613CCVB | J051613CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 88% | | |
| J051613CCVB | J051613CCVB | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 88% | | |
| J051613CCVB | J051613CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 88% | | |
| J051613CCVB | J051613CCVB | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 96% | | |
| J051613CCVB | J051613CCVB | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 94% | | |
| J051613CCVB | J051613CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 98% | | |
| J051613CCVB | J051613CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 58 | | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 116% | | |
| J051613CCVB | J051613CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | ORG | 91-20-3 | Naphthalene | 41 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 82% | | |
| J051613CCVB | J051613CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 96% | | |
| J051613CCVB | J051613CCVB | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 100% | | |
| J051613CCVB | J051613CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 92% | | |
| J051613CCVB | J051613CCVB | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8238 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613MBKB | J051613MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613MBKB | J051613MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | | | | |
| J051613MBKB | J051613MBKB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | 50 | 102% | | |
| J051613MBKB | J051613MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | 50 | 108% | | |
| J051613MBKB | J051613MBKB | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | 50 | 94% | | |
| J051613MBKB | J051613MBKB | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8239 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613ALCS | J051613ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 1.0 | | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 2% | | |
| J051613ALCS | J051613ALCS | ORG | 74-87-3 | Chloromethane | 16 | | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 32% | | |
| J051613ALCS | J051613ALCS | ORG | 75-01-4 | Vinyl chloride | 15 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 30% | | |
| J051613ALCS | J051613ALCS | ORG | 74-83-9 | Bromomethane | 45 | | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 90% | | |
| J051613ALCS | J051613ALCS | ORG | 75-00-3 | Chloroethane | 34 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 68% | | |
| J051613ALCS | J051613ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 30 | | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 60% | | |
| J051613ALCS | J051613ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 40 | | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 80% | | |
| J051613ALCS | J051613ALCS | ORG | 75-09-2 | Methylene chloride | 46 | | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | ORG | 67-64-1 | Acetone | 63 | | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 126% | | |
| J051613ALCS | J051613ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 43 | | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |
| J051613ALCS | J051613ALCS | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 112% | | |
| J051613ALCS | J051613ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 106% | | |
| J051613ALCS | J051613ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 96% | | |
| J051613ALCS | J051613ALCS | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 102% | | |
| J051613ALCS | J051613ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 100% | | |
| J051613ALCS | J051613ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 78-93-3 | 2-Butanone | 70 | | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 140% | | |
| J051613ALCS | J051613ALCS | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 71-43-2 | Benzene | 45 | | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 90% | | |
| J051613ALCS | J051613ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 100% | | |
| J051613ALCS | J051613ALCS | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 102% | | |
| J051613ALCS | J051613ALCS | ORG | 74-95-3 | Dibromomethane | 54 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 108% | | |
| J051613ALCS | J051613ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 94% | | |
| J051613ALCS | J051613ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 100% | | |
| J051613ALCS | J051613ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 90% | | |
| J051613ALCS | J051613ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 64 | | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 128% | | |
| J051613ALCS | J051613ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 127-18-4 | Tetrachloroethene | 53 | | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 106% | | |
| J051613ALCS | J051613ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 106% | | |
| J051613ALCS | J051613ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 104% | | |
| J051613ALCS | J051613ALCS | ORG | 591-78-6 | 2-Hexanone | 62 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 124% | | |
| J051613ALCS | J051613ALCS | ORG | 100-41-4 | Ethylbenzene | 38 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 76% | | |
| J051613ALCS | J051613ALCS | ORG | 108-90-7 | Chlorobenzene | 38 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 76% | | |
| J051613ALCS | J051613ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 40 | | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 80% | | |
| J051613ALCS | J051613ALCS | ORG | XYLMP | p&m-Xylene | 78 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 100 | 78% | | |
| J051613ALCS | J051613ALCS | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 84% | | |
| J051613ALCS | J051613ALCS | ORG | 100-42-5 | Styrene | 41 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 82% | | |
| J051613ALCS | J051613ALCS | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 108% | | |
| J051613ALCS | J051613ALCS | ORG | 98-82-8 | Isopropylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 82% | | |
| J051613ALCS | J051613ALCS | ORG | 103-65-1 | n-Propylbenzene | 43 | | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613ALCS | J051613ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 112% | | |
| J051613ALCS | J051613ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 108% | | |
| J051613ALCS | J051613ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |
| J051613ALCS | J051613ALCS | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |
| J051613ALCS | J051613ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |
| J051613ALCS | J051613ALCS | ORG | 135-98-8 | sec-Butylbenzene | 43 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 86% | | |
| J051613ALCS | J051613ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 90% | | |
| J051613ALCS | J051613ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 96% | | |
| J051613ALCS | J051613ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 62 | | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 124% | | |
| J051613ALCS | J051613ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 49 | | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 98% | | |
| J051613ALCS | J051613ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 96% | | |
| J051613ALCS | J051613ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 90% | | |
| J051613ALCS | J051613ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 104% | | |
| J051613ALCS | J051613ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 102% | | |
| J051613ALCS | J051613ALCS | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |
| J051613ALCS | J051613ALCS | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8233 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613ALCD | J051613ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 1.0 | | ug/L | 5 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 2% | 0% | |
| J051613ALCD | J051613ALCD | ORG | 74-87-3 | Chloromethane | 30 | | ug/L | 5 | 0.43 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 60% | 61% | |
| J051613ALCD | J051613ALCD | ORG | 75-01-4 | Vinyl chloride | 19 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 38% | 24% | |
| J051613ALCD | J051613ALCD | ORG | 74-83-9 | Bromomethane | 48 | | ug/L | 5 | 0.50 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 96% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 75-00-3 | Chloroethane | 36 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 72% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 31 | | ug/L | 5 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 62% | 3% | |
| J051613ALCD | J051613ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 41 | | ug/L | 1 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 82% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 100% | 8% | |
| J051613ALCD | J051613ALCD | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 124% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 90% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 1634-04-4 | MTBE | 59 | | ug/L | 5 | 0.61 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 118% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 57 | | ug/L | 1 | 0.53 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 7% | |
| J051613ALCD | J051613ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 102% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 108% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 106% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 100% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 78-93-3 | 2-Butanone | 67 | | ug/L | 1 | 0.17 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 134% | 4% | |
| J051613ALCD | J051613ALCD | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 100% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 96% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 108% | 8% | |
| J051613ALCD | J051613ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 110% | 8% | |
| J051613ALCD | J051613ALCD | ORG | 74-95-3 | Dibromomethane | 56 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 112% | 4% | |
| J051613ALCD | J051613ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 98% | 4% | |
| J051613ALCD | J051613ALCD | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 106% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 98% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 94% | 4% | |
| J051613ALCD | J051613ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 62 | | ug/L | 1 | 0.21 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 124% | 3% | |
| J051613ALCD | J051613ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 104% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 127-18-4 | Tetrachloroethene | 57 | | ug/L | 1 | 0.49 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 7% | |
| J051613ALCD | J051613ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 104% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 124-48-1 | Dibromochloromethane | 57 | | ug/L | 5 | 0.69 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 7% | |
| J051613ALCD | J051613ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 56 | | ug/L | 2 | 0.30 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 112% | 7% | |
| J051613ALCD | J051613ALCD | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 126% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 100-41-4 | Ethylbenzene | 40 | | ug/L | 1 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 80% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 80% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.19 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 86% | 7% | |
| J051613ALCD | J051613ALCD | ORG | XYLMP | p&m-Xylene | 80 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 100 | 80% | 3% | |
| J051613ALCD | J051613ALCD | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 86% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 100-42-5 | Styrene | 43 | | ug/L | 1 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 86% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 75-25-2 | Bromoform | 57 | | ug/L | 2 | 0.47 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 84% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 88% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051613ALCD | J051613ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 57 | | ug/L | 2 | 0.29 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 114% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 90% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 94% | 9% | |
| J051613ALCD | J051613ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 92% | 7% | |
| J051613ALCD | J051613ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 90% | 5% | |
| J051613ALCD | J051613ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 94% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 92% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 94% | 2% | |
| J051613ALCD | J051613ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 104% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 98% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 66 | | ug/L | 5 | 1.59 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 132% | 6% | |
| J051613ALCD | J051613ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 108% | 10% | |
| J051613ALCD | J051613ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 102% | 10% | |
| J051613ALCD | J051613ALCD | ORG | 91-20-3 | Naphthalene | 54 | | ug/L | 5 | 0.56 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 108% | 12% | |
| J051613ALCD | J051613ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 104% | 14% | |
| J051613ALCD | J051613ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 106% | 2% | |
| J051613ALCD | J051613ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 104% | 2% | |
| J051613ALCD | J051613ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 92% | 0% | |
| J051613ALCD | J051613ALCD | STD | 460-00-4 | Bromofluorobenzene | 45 | | ng | | | NA | 5/16/2013 | 5/16/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8234 | 50 | 90% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202MS | Ops Batch 126 | ORG | 75-71-8 | Dichlorodifluoromethane | 490 | | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 10% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 74-87-3 | Chloromethane | 3600 | | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 72% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-01-4 | Vinyl chloride | 1900 | | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 38% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 74-83-9 | Bromomethane | 4900 | | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 98% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-00-3 | Chloroethane | 3500 | | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 70% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-69-4 | Trichlorofluoromethane | 3000 | | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 60% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-35-4 | 1,1-Dichloroethene | 3700 | | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 74% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-09-2 | Methylene chloride | 4800 | | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 96% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 67-64-1 | Acetone | 52000 | | ug/L | 1000 | 155.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 100% | | 47000 |
| NAL13026-202MS | Ops Batch 126 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4400 | | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 88% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 1634-04-4 | MTBE | 5800 | | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 116% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 110% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 98% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 74-97-5 | Bromochloromethane | 5300 | | ug/L | 1000 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 106% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 100% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 78-93-3 | 2-Butanone | 31000 | | ug/L | 100 | 16.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 40% | | 29000 |
| NAL13026-202MS | Ops Batch 126 | ORG | 56-23-5 | Carbon tetrachloride | 5100 | | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 92% | | 93 |
| NAL13026-202MS | Ops Batch 126 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 110% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 108% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 96% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 96% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 91% | | 60 |
| NAL13026-202MS | Ops Batch 126 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6900 | | ug/L | 100 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 125% | | 640 |
| NAL13026-202MS | Ops Batch 126 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 100% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 90% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 104% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 124-48-1 | Dibromochloromethane | 5700 | | ug/L | 500 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 114% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 106-93-4 | 1,2-Dibromoethane | 5400 | | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 108% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 591-78-6 | 2-Hexanone | 4800 | | ug/L | 200 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 90% | | 300 |
| NAL13026-202MS | Ops Batch 126 | ORG | 100-41-4 | Ethylbenzene | 4000 | | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 78% | | 78 |
| NAL13026-202MS | Ops Batch 126 | ORG | 108-90-7 | Chlorobenzene | 4000 | | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 80% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4300 | | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 86% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | XYLMP | p&m-Xylene | 8200 | | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 10000 | 80% | | 190 |
| NAL13026-202MS | Ops Batch 126 | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 88% | | 100 |
| NAL13026-202MS | Ops Batch 126 | ORG | 100-42-5 | Styrene | 4300 | | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 86% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 75-25-2 | Bromoform | 5800 | | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 116% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 85% | | 68 |
| NAL13026-202MS | Ops Batch 126 | ORG | 103-65-1 | n-Propylbenzene | 4400 | | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 87% | | 69 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202MS | Ops Batch 126 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 6100 | | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 122% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5600 | | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 112% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 89% | | 130 |
| NAL13026-202MS | Ops Batch 126 | ORG | 98-06-6 | tert-Butylbenzene | 4500 | | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 90% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 91% | | 470 |
| NAL13026-202MS | Ops Batch 126 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 91% | | 54 |
| NAL13026-202MS | Ops Batch 126 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 90% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 99-87-6 | p-Isopropltoluene | 7900 | | ug/L | 200 | 25.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | 2800 |
| NAL13026-202MS | Ops Batch 126 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 95% | | 560 |
| NAL13026-202MS | Ops Batch 126 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 95% | | 160 |
| NAL13026-202MS | Ops Batch 126 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 7900 | | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 158% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 104% | | |
| NAL13026-202MS | Ops Batch 126 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5200 | | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 103% | | 64 |
| NAL13026-202MS | Ops Batch 126 | ORG | 91-20-3 | Naphthalene | 6700 | | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 114% | | 1000 |
| NAL13026-202MS | Ops Batch 126 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 5000 | 104% | | |
| NAL13026-202MS | Ops Batch 126 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 50 | 106% | | |
| NAL13026-202MS | Ops Batch 126 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 50 | 102% | | |
| NAL13026-202MS | Ops Batch 126 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 50 | 92% | | |
| NAL13026-202MS | Ops Batch 126 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8235 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-71-8 | Dichlorodifluoromethane | 100 | | ug/L | 500 | 29.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 2% | 132% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 74-87-3 | Chloromethane | 2700 | | ug/L | 500 | 43.07 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 54% | 29% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-01-4 | Vinyl chloride | 1400 | | ug/L | 200 | 31.86 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 28% | 30% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 74-83-9 | Bromomethane | 5100 | | ug/L | 500 | 50.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 102% | 4% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-00-3 | Chloroethane | 2800 | | ug/L | 500 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 56% | 22% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-69-4 | Trichlorofluoromethane | 3000 | | ug/L | 500 | 19.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 60% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-35-4 | 1,1-Dichloroethene | 3900 | | ug/L | 100 | 47.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 78% | 5% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-09-2 | Methylene chloride | 4600 | | ug/L | 500 | 26.46 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 92% | 4% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 67-64-1 | Acetone | 52000 | | ug/L | 1000 | 155.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 0% | 47000 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4500 | | ug/L | 100 | 55.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 90% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 1634-04-4 | MTBE | 5400 | | ug/L | 500 | 61.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 108% | 7% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-34-3 | 1,1-Dichloroethane | 5300 | | ug/L | 100 | 52.66 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 4% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 98% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 74-97-5 | Bromochloromethane | 5200 | | ug/L | 1000 | 81.18 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 104% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 67-66-3 | Chloroform | 5000 | | ug/L | 200 | 41.37 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5100 | | ug/L | 100 | 15.73 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 102% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 78-93-3 | 2-Butanone | 30000 | | ug/L | 100 | 16.65 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 20% | 3% | 29000 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 92% | 0% | 93 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 4% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 79-01-6 | Trichloroethene | 5200 | | ug/L | 100 | 36.33 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 104% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 74-95-3 | Dibromomethane | 5300 | | ug/L | 200 | 32.20 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 78-87-5 | 1,2-Dichloropropane | 4700 | | ug/L | 100 | 18.17 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 94% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 102% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 94% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 91% | 0% | 60 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6200 | | ug/L | 100 | 20.96 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 111% | 11% | 640 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 90% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 4% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 108% | 5% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 591-78-6 | 2-Hexanone | 4300 | | ug/L | 200 | 26.49 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 80% | 11% | 300 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 100-41-4 | Ethylbenzene | 4000 | | ug/L | 100 | 25.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 78% | 0% | 78 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 108-90-7 | Chlorobenzene | 4000 | | ug/L | 100 | 27.52 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 80% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4100 | | ug/L | 200 | 19.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 82% | 5% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | XYLMP | p&m-Xylene | 8100 | | ug/L | 200 | 26.14 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 10000 | 79% | 1% | 190 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 95-47-6 | o-Xylene | 4300 | | ug/L | 100 | 12.90 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 84% | 5% | 100 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 100-42-5 | Styrene | 4200 | | ug/L | 100 | 20.23 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 84% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 110% | 5% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 98-82-8 | Isopropylbenzene | 4200 | | ug/L | 200 | 20.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 83% | 2% | 68 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 103-65-1 | n-Propylbenzene | 4400 | | ug/L | 200 | 27.00 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 87% | 0% | 69 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-202MSD | Ops Batch 126 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 110% | 10% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 6% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 87% | 2% | 130 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 98-06-6 | tert-Butylbenzene | 4500 | | ug/L | 200 | 32.61 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 90% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 89% | 2% | 470 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 135-98-8 | sec-Butylbenzene | 4400 | | ug/L | 200 | 32.34 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 87% | 4% | 54 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4600 | | ug/L | 200 | 22.21 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 92% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 99-87-6 | p-Isopropltoluene | 7700 | | ug/L | 200 | 25.48 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 98% | 3% | 2800 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5400 | | ug/L | 200 | 33.03 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 97% | 2% | 560 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 100% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 93% | 2% | 160 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 7300 | | ug/L | 500 | 159.11 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 146% | 8% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 87-68-3 | Hexachlorobutadiene | 4900 | | ug/L | 500 | 65.42 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 98% | 6% | 0 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 99% | 4% | 64 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 91-20-3 | Naphthalene | 6300 | | ug/L | 500 | 56.04 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 106% | 6% | 1000 |
| NAL13026-202MSD | Ops Batch 126 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 5000 | 98% | 6% | 0 |
| NAL13026-202MSD | Ops Batch 126 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 50 | 106% | 0% | 0 |
| NAL13026-202MSD | Ops Batch 126 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 50 | 104% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 50 | 94% | 2% | 0 |
| NAL13026-202MSD | Ops Batch 126 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/16/2013 | 5/16/2013 | 5/16/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8236 | 50 | 94% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207 | Ops Batch 129 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 67-64-1 | Acetone | 49000 | D | ug/L | 10000 | 1556.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8263 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 10000 | 811.80 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8263 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 71-43-2 | Benzene | 81 | J | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 78 | J | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 108-88-3 | Toluene | 86 | J | ug/L | 100 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 460 | J | ug/L | 500 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 86 | J | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 591-78-6 | 2-Hexanone | 250 | J | ug/L | 500 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 100-41-4 | Ethylbenzene | 79 | J | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | XYLMP | p&m-Xylene | 170 | J | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 95-47-6 | o-Xylene | 80 | J | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 100-42-5 | Styrene | 110 | | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 98-82-8 | Isopropylbenzene | 78 | J | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 103-65-1 | n-Propylbenzene | 74 | J | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207 | Ops Batch 129 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 87 | J | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 98-06-6 | tert-Butylbenzene | 72 | J | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 98 | J | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 135-98-8 | sec-Butylbenzene | 79 | J | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 110 | J | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 99-87-6 | p-Isopropltoluene | 130 | J | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 104-51-8 | n-Butylbenzene | 87 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 67 | J | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 91-20-3 | Naphthalene | 360 | J | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | | | | |
| NAL13026-207 | Ops Batch 129 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | 50 | 102% | | |
| NAL13026-207 | Ops Batch 129 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | 50 | 106% | | |
| NAL13026-207 | Ops Batch 129 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | 50 | 98% | | |
| NAL13026-207 | Ops Batch 129 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8262 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 67-64-1 | Acetone | 110000 | D | ug/L | 10000 | 1556.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8270 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 78-93-3 | 2-Butanone | 55000 | D | ug/L | 10000 | 166.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8270 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 71-43-2 | Benzene | 35 | J | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 108-88-3 | Toluene | 53 | J | ug/L | 100 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1400 | | ug/L | 500 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 591-78-6 | 2-Hexanone | 910 | | ug/L | 500 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 100-41-4 | Ethylbenzene | 120 | | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | XYLMP | p&m-Xylene | 320 | | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 95-47-6 | o-Xylene | 160 | | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 100-42-5 | Styrene | 90 | J | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 98-82-8 | Isopropylbenzene | 140 | J | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 103-65-1 | n-Propylbenzene | 120 | J | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 260 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 910 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 135-98-8 | sec-Butylbenzene | 96 | J | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 99-87-6 | p-Isopropltoluene | 4100 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 940 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 110 | J | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 104-51-8 | n-Butylbenzene | 270 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 260 | J | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 91-20-3 | Naphthalene | 1800 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 410 | J | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | | | | |
| NAL13026-208 | Ops Batch 130ST-T1 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | 50 | 100% | | |
| NAL13026-208 | Ops Batch 130ST-T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | 50 | 104% | | |
| NAL13026-208 | Ops Batch 130ST-T1 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | 50 | 96% | | |
| NAL13026-208 | Ops Batch 130ST-T1 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8264 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 67-64-1 | Acetone | 14000 | D | ug/L | 10000 | 1556.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8271 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 78-93-3 | 2-Butanone | 70000 | D | ug/L | 10000 | 166.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8271 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 71-43-2 | Benzene | 82 | J | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 108-88-3 | Toluene | 64 | J | ug/L | 100 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2200 | | ug/L | 500 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 591-78-6 | 2-Hexanone | 1300 | | ug/L | 500 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 100-41-4 | Ethylbenzene | 100 | | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | XYLMP | p&m-Xylene | 260 | | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 95-47-6 | o-Xylene | 140 | | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 98-82-8 | Isopropylbenzene | 86 | J | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 103-65-1 | n-Propylbenzene | 84 | J | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 570 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 135-98-8 | sec-Butylbenzene | 55 | J | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 99-87-6 | p-Isopropltoluene | 2400 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 600 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 104-51-8 | n-Butylbenzene | 160 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 91-20-3 | Naphthalene | 1200 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | | | | |
| NAL13026-209 | Ops Batch 130ST-T2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | 50 | 98% | | |
| NAL13026-209 | Ops Batch 130ST-T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | 50 | 104% | | |
| NAL13026-209 | Ops Batch 130ST-T2 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | 50 | 98% | | |
| NAL13026-209 | Ops Batch 130ST-T2 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8265 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 67-64-1 | Acetone | 98000 | D | ug/L | 10000 | 1556.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8272 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 78-93-3 | 2-Butanone | 46000 | D | ug/L | 10000 | 166.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8272 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1100 | | ug/L | 500 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 591-78-6 | 2-Hexanone | 710 | | ug/L | 500 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 100-41-4 | Ethylbenzene | 45 | J | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | XYLMP | p&m-Xylene | 120 | J | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 95-47-6 | o-Xylene | 70 | J | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 100-42-5 | Styrene | 37 | J | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 98-82-8 | Isopropylbenzene | 52 | J | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 103-65-1 | n-Propylbenzene | 50 | J | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 120 | J | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 440 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 135-98-8 | sec-Butylbenzene | 35 | J | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 99-87-6 | p-Isopropltoluene | 2000 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 530 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 28 | J | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 104-51-8 | n-Butylbenzene | 140 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 91-20-3 | Naphthalene | 960 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | | | | |
| NAL13026-210 | Ops Batch 130ST-T3 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | 50 | 98% | | |
| NAL13026-210 | Ops Batch 130ST-T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | 50 | 102% | | |
| NAL13026-210 | Ops Batch 130ST-T3 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | 50 | 98% | | |
| NAL13026-210 | Ops Batch 130ST-T3 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8268 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 67-64-1 | Acetone | 100000 | D | ug/L | 10000 | 1556.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8273 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 78-93-3 | 2-Butanone | 47000 | D | ug/L | 10000 | 166.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8273 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 71-43-2 | Benzene | 45 | J | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 108-88-3 | Toluene | 70 | J | ug/L | 100 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1200 | | ug/L | 500 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 591-78-6 | 2-Hexanone | 760 | | ug/L | 500 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 100-41-4 | Ethylbenzene | 94 | J | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | XYLMP | p&m-Xylene | 210 | | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 95-47-6 | o-Xylene | 100 | | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 100-42-5 | Styrene | 130 | | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 98-82-8 | Isopropylbenzene | 100 | J | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 103-65-1 | n-Propylbenzene | 130 | J | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 170 | J | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 320 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 135-98-8 | sec-Butylbenzene | 140 | J | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 180 | J | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 99-87-6 | p-Isopropltoluene | 1300 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 450 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 180 | J | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 104-51-8 | n-Butylbenzene | 240 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 87-68-3 | Hexachlorobutadiene | 430 | J | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 420 | J | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 91-20-3 | Naphthalene | 1400 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 610 | | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | | | | |
| NAL13026-211 | Ops Batch 130ST-T4 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | 50 | 98% | | |
| NAL13026-211 | Ops Batch 130ST-T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | 50 | 104% | | |
| NAL13026-211 | Ops Batch 130ST-T4 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | 50 | 98% | | |
| NAL13026-211 | Ops Batch 130ST-T4 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8269 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 67-64-1 | Acetone | 52000 | D | ug/L | 1000 | 155.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8267 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 78-93-3 | 2-Butanone | 26000 | U | ug/L | 1000 | 16.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 430 | J | ug/L | 500 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 591-78-6 | 2-Hexanone | 300 | J | ug/L | 500 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 100-42-5 | Styrene | 37 | J | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-212 | Ops Batch 131-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 99-87-6 | p-Isopropltoluene | 120 | J | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 104-51-8 | n-Butylbenzene | 35 | J | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 91-20-3 | Naphthalene | 340 | J | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | | | | |
| NAL13026-212 | Ops Batch 131-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | 50 | 100% | | |
| NAL13026-212 | Ops Batch 131-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | 50 | 96% | | |
| NAL13026-212 | Ops Batch 131-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | 50 | 98% | | |
| NAL13026-212 | Ops Batch 131-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8266 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713CCVA | J051713CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 90% | | |
| J051713CCVA | J051713CCVA | ORG | 74-87-3 | Chloromethane | 46 | | ug/L | 5 | 0.43 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 75-01-4 | Vinyl chloride | 46 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 74-83-9 | Bromomethane | 61 | | ug/L | 5 | 0.50 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 122% | | |
| J051713CCVA | J051713CCVA | ORG | 75-00-3 | Chloroethane | 60 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 120% | | |
| J051713CCVA | J051713CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 67-64-1 | Acetone | 46 | | ug/L | 10 | 1.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | 1634-04-4 | MTBE | 43 | | ug/L | 5 | 0.61 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 86% | | |
| J051713CCVA | J051713CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 102% | | |
| J051713CCVA | J051713CCVA | ORG | 78-93-3 | 2-Butanone | 44 | | ug/L | 1 | 0.17 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 88% | | |
| J051713CCVA | J051713CCVA | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 104% | | |
| J051713CCVA | J051713CCVA | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 49 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 102% | | |
| J051713CCVA | J051713CCVA | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 1 | 0.21 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 108% | | |
| J051713CCVA | J051713CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | ORG | 127-18-4 | Tetrachloroethene | 42 | | ug/L | 1 | 0.49 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 84% | | |
| J051713CCVA | J051713CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 591-78-6 | 2-Hexanone | 48 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 100 | 91% | | |
| J051713CCVA | J051713CCVA | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 75-25-2 | Bromoform | 45 | | ug/L | 2 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 90% | | |
| J051713CCVA | J051713CCVA | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713CCVA | J051713CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 90% | | |
| J051713CCVA | J051713CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 88% | | |
| J051713CCVA | J051713CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |
| J051713CCVA | J051713CCVA | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 84% | | |
| J051713CCVA | J051713CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 108% | | |
| J051713CCVA | J051713CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 102% | | |
| J051713CCVA | J051713CCVA | ORG | 91-20-3 | Naphthalene | 41 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 82% | | |
| J051713CCVA | J051713CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 94% | | |
| J051713CCVA | J051713CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 100% | | |
| J051713CCVA | J051713CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 92% | | |
| J051713CCVA | J051713CCVA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 98% | | |
| J051713CCVA | J051713CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8260 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713MBKA | J051713MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713MBKA | J051713MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | | | | |
| J051713MBKA | J051713MBKA | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | 50 | 110% | | |
| J051713MBKA | J051713MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 59 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | 50 | 118% | | |
| J051713MBKA | J051713MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | 50 | 96% | | |
| J051713MBKA | J051713MBKA | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8261 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713ALCS | J051713ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 90% | | |
| J051713ALCS | J051713ALCS | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 82% | | |
| J051713ALCS | J051713ALCS | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | ORG | 74-83-9 | Bromomethane | 66 | | ug/L | 5 | 0.50 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 132% | | |
| J051713ALCS | J051713ALCS | ORG | 75-00-3 | Chloroethane | 68 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 136% | | |
| J051713ALCS | J051713ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |
| J051713ALCS | J051713ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 114% | | |
| J051713ALCS | J051713ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 108% | | |
| J051713ALCS | J051713ALCS | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 104% | | |
| J051713ALCS | J051713ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |
| J051713ALCS | J051713ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 112% | | |
| J051713ALCS | J051713ALCS | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 51 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 104% | | |
| J051713ALCS | J051713ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 104% | | |
| J051713ALCS | J051713ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 106% | | |
| J051713ALCS | J051713ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 127-18-4 | Tetrachloroethene | 48 | | ug/L | 1 | 0.49 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |
| J051713ALCS | J051713ALCS | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 104% | | |
| J051713ALCS | J051713ALCS | ORG | 591-78-6 | 2-Hexanone | 53 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 106% | | |
| J051713ALCS | J051713ALCS | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 94% | | |
| J051713ALCS | J051713ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |
| J051713ALCS | J051713ALCS | ORG | XYLMP | p&m-Xylene | 92 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 100 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 94% | | |
| J051713ALCS | J051713ALCS | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 102% | | |
| J051713ALCS | J051713ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713ALCS | J051713ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 110% | | |
| J051713ALCS | J051713ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 55 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 110% | | |
| J051713ALCS | J051713ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 90% | | |
| J051713ALCS | J051713ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 94% | | |
| J051713ALCS | J051713ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 88% | | |
| J051713ALCS | J051713ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 92% | | |
| J051713ALCS | J051713ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 108% | | |
| J051713ALCS | J051713ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 94% | | |
| J051713ALCS | J051713ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 90% | | |
| J051713ALCS | J051713ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 100% | | |
| J051713ALCS | J051713ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |
| J051713ALCS | J051713ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 96% | | |
| J051713ALCS | J051713ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8275 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713ALCD | J051713ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 23 | | ug/L | 5 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 46% | 65% | |
| J051713ALCD | J051713ALCD | ORG | 74-87-3 | Chloromethane | 22 | | ug/L | 5 | 0.43 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 44% | 60% | |
| J051713ALCD | J051713ALCD | ORG | 75-01-4 | Vinyl chloride | 25 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 50% | 63% | |
| J051713ALCD | J051713ALCD | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 82% | 47% | |
| J051713ALCD | J051713ALCD | ORG | 75-00-3 | Chloroethane | 32 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 64% | 72% | |
| J051713ALCD | J051713ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 25 | | ug/L | 5 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 50% | 65% | |
| J051713ALCD | J051713ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 6% | |
| J051713ALCD | J051713ALCD | ORG | 67-64-1 | Acetone | 56 | | ug/L | 10 | 1.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 112% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 112% | 4% | |
| J051713ALCD | J051713ALCD | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 106% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 108% | 4% | |
| J051713ALCD | J051713ALCD | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 51 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 51 | | ug/L | 1 | 0.18 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 102% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 106% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 127-18-4 | Tetrachloroethene | 49 | | ug/L | 1 | 0.49 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 106% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 0% | |
| J051713ALCD | J051713ALCD | ORG | XYLMP | p&m-Xylene | 93 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 100 | 93% | 1% | |
| J051713ALCD | J051713ALCD | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 92% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 75-25-2 | Bromoform | 52 | | ug/L | 2 | 0.47 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051713ALCD | J051713ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 110% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 108% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 92% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 4% | |
| J051713ALCD | J051713ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 7% | |
| J051713ALCD | J051713ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 92% | 0% | |
| J051713ALCD | J051713ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 55 | | ug/L | 5 | 1.59 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 110% | 2% | |
| J051713ALCD | J051713ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 104% | 8% | |
| J051713ALCD | J051713ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 106% | 6% | |
| J051713ALCD | J051713ALCD | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 4% | |
| J051713ALCD | J051713ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 4% | |
| J051713ALCD | J051713ALCD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 100% | 0% | |
| J051713ALCD | J051713ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 94% | 4% | |
| J051713ALCD | J051713ALCD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 2% | |
| J051713ALCD | J051713ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/17/2013 | 5/17/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8276 | 50 | 98% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207MS | Ops Batch 129 | ORG | 75-71-8 | Dichlorodifluoromethane | 4300 | | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 86% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 74-87-3 | Chloromethane | 4000 | | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 80% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-01-4 | Vinyl chloride | 4400 | | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 88% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 74-83-9 | Bromomethane | 5800 | | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 116% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 106% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-69-4 | Trichlorofluoromethane | 4500 | | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-35-4 | 1,1-Dichloroethene | 4800 | | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 96% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-09-2 | Methylene chloride | 4900 | | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 67-64-1 | Acetone | 49000 | | ug/L | 1000 | 155.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 0% | | 49000 |
| NAL13026-207MS | Ops Batch 129 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5400 | | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 108% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 1634-04-4 | MTBE | 4900 | | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-34-3 | 1,1-Dichloroethane | 4900 | | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 67-66-3 | Chloroform | 5000 | | ug/L | 200 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 78-93-3 | 2-Butanone | 21000 | | ug/L | 100 | 16.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | -100% | | 26000 |
| NAL13026-207MS | Ops Batch 129 | ORG | 56-23-5 | Carbon tetrachloride | 5100 | | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 71-43-2 | Benzene | 4900 | | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 96% | | 81 |
| NAL13026-207MS | Ops Batch 129 | ORG | 107-06-2 | 1,2-Dichloroethane | 5100 | | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 79-01-6 | Trichloroethene | 5100 | | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 74-95-3 | Dibromomethane | 5200 | | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 104% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 78-87-5 | 1,2-Dichloropropane | 5100 | | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 96% | | 78 |
| NAL13026-207MS | Ops Batch 129 | ORG | 108-88-3 | Toluene | 4800 | | ug/L | 500 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | 86 |
| NAL13026-207MS | Ops Batch 129 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4600 | | ug/L | 100 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 83% | | 460 |
| NAL13026-207MS | Ops Batch 129 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4800 | | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | 86 |
| NAL13026-207MS | Ops Batch 129 | ORG | 127-18-4 | Tetrachloroethene | 5500 | | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 110% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 104% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 106-93-4 | 1,2-Dibromoethane | 5000 | | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 591-78-6 | 2-Hexanone | 3500 | | ug/L | 200 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 65% | | 250 |
| NAL13026-207MS | Ops Batch 129 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | 79 |
| NAL13026-207MS | Ops Batch 129 | ORG | 108-90-7 | Chlorobenzene | 4700 | | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4700 | | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 10000 | 89% | | 170 |
| NAL13026-207MS | Ops Batch 129 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | 80 |
| NAL13026-207MS | Ops Batch 129 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | 110 |
| NAL13026-207MS | Ops Batch 129 | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 92% | | 78 |
| NAL13026-207MS | Ops Batch 129 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 93% | | 74 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207MS | Ops Batch 129 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5400 | | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 108% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 102% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | 87 |
| NAL13026-207MS | Ops Batch 129 | ORG | 98-06-6 | tert-Butylbenzene | 4700 | | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 93% | | 72 |
| NAL13026-207MS | Ops Batch 129 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 90% | | 98 |
| NAL13026-207MS | Ops Batch 129 | ORG | 135-98-8 | sec-Butylbenzene | 4700 | | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 92% | | 79 |
| NAL13026-207MS | Ops Batch 129 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 92% | | 110 |
| NAL13026-207MS | Ops Batch 129 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 91% | | 130 |
| NAL13026-207MS | Ops Batch 129 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4600 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 92% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4800 | | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | 110 |
| NAL13026-207MS | Ops Batch 129 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 92% | | 87 |
| NAL13026-207MS | Ops Batch 129 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 108% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 104% | | |
| NAL13026-207MS | Ops Batch 129 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 99% | | 67 |
| NAL13026-207MS | Ops Batch 129 | ORG | 91-20-3 | Naphthalene | 5100 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 95% | | 360 |
| NAL13026-207MS | Ops Batch 129 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 5000 | 94% | | |
| NAL13026-207MS | Ops Batch 129 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 50 | 100% | | |
| NAL13026-207MS | Ops Batch 129 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 50 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 50 | 98% | | |
| NAL13026-207MS | Ops Batch 129 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8277 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-71-8 | Dichlorodifluoromethane | 4000 | | ug/L | 500 | 29.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 80% | 7% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 74-87-3 | Chloromethane | 3500 | | ug/L | 500 | 43.07 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 70% | 13% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-01-4 | Vinyl chloride | 3900 | | ug/L | 200 | 31.86 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 78% | 12% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 74-83-9 | Bromomethane | 6000 | | ug/L | 500 | 50.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 120% | 3% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-00-3 | Chloroethane | 5000 | | ug/L | 500 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 100% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-69-4 | Trichlorofluoromethane | 4100 | | ug/L | 500 | 19.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 82% | 9% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 13% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-09-2 | Methylene chloride | 4700 | | ug/L | 500 | 26.46 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 94% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 67-64-1 | Acetone | 55000 | | ug/L | 1000 | 155.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 120% | 12% | 49000 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4900 | | ug/L | 100 | 55.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 98% | 10% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 1634-04-4 | MTBE | 5400 | | ug/L | 500 | 61.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 108% | 10% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-34-3 | 1,1-Dichloroethane | 4600 | | ug/L | 100 | 52.66 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 92% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4700 | | ug/L | 100 | 32.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 94% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 74-97-5 | Bromochloromethane | 4800 | | ug/L | 1000 | 81.18 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 67-66-3 | Chloroform | 4800 | | ug/L | 200 | 41.37 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4800 | | ug/L | 100 | 15.73 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 78-93-3 | 2-Butanone | 23000 | | ug/L | 100 | 16.65 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | -60% | 9% | 26000 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 92% | 4% | 81 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 100% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 79-01-6 | Trichloroethene | 4800 | | ug/L | 100 | 36.33 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 74-95-3 | Dibromomethane | 5100 | | ug/L | 200 | 32.20 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 102% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 100% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-27-4 | Bromodichloromethane | 4900 | | ug/L | 200 | 11.58 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 98% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 94% | 2% | 78 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 90% | 4% | 86 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5400 | | ug/L | 100 | 20.96 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 99% | 16% | 460 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 96% | 2% | 86 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 127-18-4 | Tetrachloroethene | 5400 | | ug/L | 100 | 48.56 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 108% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 102% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 104% | 0% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 104% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 73% | 11% | 250 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 7% | 79 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 108-90-7 | Chlorobenzene | 4400 | | ug/L | 100 | 27.52 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 88% | 7% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4600 | | ug/L | 200 | 19.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 92% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | XYLMP | p&m-Xylene | 8700 | | ug/L | 200 | 26.14 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 10000 | 85% | 4% | 170 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 86% | 4% | 80 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 100-42-5 | Styrene | 4300 | | ug/L | 100 | 20.23 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 7% | 110 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 75-25-2 | Bromoform | 5200 | | ug/L | 200 | 46.83 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 104% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 9% | 78 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 103-65-1 | n-Propylbenzene | 4300 | | ug/L | 200 | 27.00 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 85% | 9% | 74 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-207MSD | Ops Batch 129 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5600 | | ug/L | 200 | 29.16 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 112% | 4% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5400 | | ug/L | 200 | 29.47 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 108% | 6% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4300 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 7% | 87 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 98-06-6 | tert-Butylbenzene | 4300 | | ug/L | 200 | 32.61 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 85% | 9% | 72 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 86% | 4% | 98 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 135-98-8 | sec-Butylbenzene | 4300 | | ug/L | 200 | 32.34 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 84% | 9% | 79 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 88% | 4% | 110 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 99-87-6 | p-Isopropltoluene | 4300 | | ug/L | 200 | 25.48 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 83% | 9% | 130 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4300 | | ug/L | 200 | 33.03 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 86% | 7% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4700 | | ug/L | 200 | 26.38 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 92% | 2% | 110 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 104-51-8 | n-Butylbenzene | 4200 | | ug/L | 500 | 27.81 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 82% | 11% | 87 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5800 | | ug/L | 500 | 159.11 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 116% | 7% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 87-68-3 | Hexachlorobutadiene | 4600 | | ug/L | 500 | 65.42 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 92% | 12% | 0 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4700 | | ug/L | 500 | 27.63 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 93% | 6% | 67 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 91-20-3 | Naphthalene | 5100 | | ug/L | 500 | 56.04 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 95% | 0% | 360 |
| NAL13026-207MSD | Ops Batch 129 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4400 | | ug/L | 500 | 23.28 | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 5000 | 88% | 7% | 0 |
| NAL13026-207MSD | Ops Batch 129 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 50 | 102% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 50 | 100% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 50 | 96% | 2% | 0 |
| NAL13026-207MSD | Ops Batch 129 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/17/2013 | 5/17/2013 | 5/17/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8278 | 50 | 100% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213 | Ops Batch 132 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 67-64-1 | Acetone | 46000 | D | ug/L | 10000 | 1556.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8285 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 78-93-3 | 2-Butanone | 24000 | D | ug/L | 10000 | 811.80 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8285 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 440 | J | ug/L | 500 | 74.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 591-78-6 | 2-Hexanone | 250 | J | ug/L | 500 | 68.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | XYLMP | p&m-Xylene | 52 | J | ug/L | 200 | 26.14 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 95-47-6 | o-Xylene | 21 | J | ug/L | 100 | 12.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 100-42-5 | Styrene | 55 | J | ug/L | 100 | 20.23 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 103-65-1 | n-Propylbenzene | 37 | J | ug/L | 200 | 27.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213 | Ops Batch 132 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 88 | J | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 135-98-8 | sec-Butylbenzene | 40 | J | ug/L | 200 | 32.34 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 99-87-6 | p-Isopropltoluene | 410 | | ug/L | 200 | 25.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 104-51-8 | n-Butylbenzene | 91 | J | ug/L | 500 | 27.81 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 91-20-3 | Naphthalene | 550 | | ug/L | 500 | 56.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | | | | |
| NAL13026-213 | Ops Batch 132 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | 50 | 104% | | |
| NAL13026-213 | Ops Batch 132 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | 50 | 106% | | |
| NAL13026-213 | Ops Batch 132 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | 50 | 98% | | |
| NAL13026-213 | Ops Batch 132 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8284 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-214 | Ops Batch 133 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 74-83-9 | Bromomethane | | UX+ | ug/L | 500 | 50.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 67-64-1 | Acetone | 57000 | D | ug/L | 10000 | 1556.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8283 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 78-93-3 | 2-Butanone | 28000 | D | ug/L | 10000 | 166.52 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8283 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 460 | J | ug/L | 500 | 20.96 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 591-78-6 | 2-Hexanone | 210 | J | ug/L | 500 | 26.49 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 100-42-5 | Styrene | 39 | J | ug/L | 100 | 20.23 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-214 | Ops Batch 133 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 99-87-6 | p-Isopropltoluene | 120 | J | ug/L | 200 | 25.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 91-20-3 | Naphthalene | 250 | J | ug/L | 500 | 56.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | | | | |
| NAL13026-214 | Ops Batch 133 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | 50 | 100% | | |
| NAL13026-214 | Ops Batch 133 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | 50 | 98% | | |
| NAL13026-214 | Ops Batch 133 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | 50 | 98% | | |
| NAL13026-214 | Ops Batch 133 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8282 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813CCVA | J051813CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 42 | | ug/L | 5 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 84% | | |
| J051813CCVA | J051813CCVA | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 75-01-4 | Vinyl chloride | 47 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 74-83-9 | Bromomethane | 62 | | ug/L | 5 | 0.50 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 124% | | |
| J051813CCVA | J051813CCVA | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 104% | | |
| J051813CCVA | J051813CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 88% | | |
| J051813CCVA | J051813CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 45 | | ug/L | 1 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 75-09-2 | Methylene chloride | 45 | | ug/L | 5 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 67-64-1 | Acetone | 51 | | ug/L | 10 | 1.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 102% | | |
| J051813CCVA | J051813CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 106% | | |
| J051813CCVA | J051813CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 74-97-5 | Bromochloromethane | 47 | | ug/L | 10 | 0.81 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 67-66-3 | Chloroform | 47 | | ug/L | 2 | 0.41 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 102% | | |
| J051813CCVA | J051813CCVA | ORG | 56-23-5 | Carbon tetrachloride | 48 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 79-01-6 | Trichloroethene | 47 | | ug/L | 1 | 0.36 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 100% | | |
| J051813CCVA | J051813CCVA | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 98% | | |
| J051813CCVA | J051813CCVA | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 56 | | ug/L | 1 | 0.21 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 112% | | |
| J051813CCVA | J051813CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 127-18-4 | Tetrachloroethene | 40 | | ug/L | 1 | 0.49 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 80% | | |
| J051813CCVA | J051813CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 45 | | ug/L | 1 | 0.34 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 124-48-1 | Dibromochloromethane | 46 | | ug/L | 5 | 0.69 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 591-78-6 | 2-Hexanone | 53 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 106% | | |
| J051813CCVA | J051813CCVA | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 100 | 89% | | |
| J051813CCVA | J051813CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813CCVA | J051813CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 100% | | |
| J051813CCVA | J051813CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 98% | | |
| J051813CCVA | J051813CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 88% | | |
| J051813CCVA | J051813CCVA | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 88% | | |
| J051813CCVA | J051813CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 92% | | |
| J051813CCVA | J051813CCVA | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 47 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 94% | | |
| J051813CCVA | J051813CCVA | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 84% | | |
| J051813CCVA | J051813CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 102% | | |
| J051813CCVA | J051813CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | ORG | 91-20-3 | Naphthalene | 40 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 80% | | |
| J051813CCVA | J051813CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 84% | | |
| J051813CCVA | J051813CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 98% | | |
| J051813CCVA | J051813CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 90% | | |
| J051813CCVA | J051813CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 96% | | |
| J051813CCVA | J051813CCVA | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8280 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813MBKA | J051813MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813MBKA | J051813MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | | | | |
| J051813MBKA | J051813MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | 50 | 102% | | |
| J051813MBKA | J051813MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | 50 | 102% | | |
| J051813MBKA | J051813MBKA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | 50 | 98% | | |
| J051813MBKA | J051813MBKA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8281 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813ALCS | J051813ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 34 | | ug/L | 5 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 68% | | |
| J051813ALCS | J051813ALCS | ORG | 74-87-3 | Chloromethane | 35 | | ug/L | 5 | 0.43 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 70% | | |
| J051813ALCS | J051813ALCS | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 80% | | |
| J051813ALCS | J051813ALCS | ORG | 74-83-9 | Bromomethane | 58 | | ug/L | 5 | 0.50 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 116% | | |
| J051813ALCS | J051813ALCS | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 40 | | ug/L | 5 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 80% | | |
| J051813ALCS | J051813ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 47 | | ug/L | 1 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 116% | | |
| J051813ALCS | J051813ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 98% | | |
| J051813ALCS | J051813ALCS | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 67-66-3 | Chloroform | 49 | | ug/L | 2 | 0.41 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 98% | | |
| J051813ALCS | J051813ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 106% | | |
| J051813ALCS | J051813ALCS | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 49 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 98% | | |
| J051813ALCS | J051813ALCS | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 102% | | |
| J051813ALCS | J051813ALCS | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 98% | | |
| J051813ALCS | J051813ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 40 | | ug/L | 1 | 0.21 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 80% | | |
| J051813ALCS | J051813ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 98% | | |
| J051813ALCS | J051813ALCS | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 82% | | |
| J051813ALCS | J051813ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 110% | | |
| J051813ALCS | J051813ALCS | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 100 | 89% | | |
| J051813ALCS | J051813ALCS | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 88% | | |
| J051813ALCS | J051813ALCS | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813ALCS | J051813ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 102% | | |
| J051813ALCS | J051813ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 88% | | |
| J051813ALCS | J051813ALCS | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 88% | | |
| J051813ALCS | J051813ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 90% | | |
| J051813ALCS | J051813ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 47 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 92% | | |
| J051813ALCS | J051813ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 102% | | |
| J051813ALCS | J051813ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 84% | | |
| J051813ALCS | J051813ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 43 | | ug/L | 5 | 0.23 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 86% | | |
| J051813ALCS | J051813ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 100% | | |
| J051813ALCS | J051813ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |
| J051813ALCS | J051813ALCS | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 94% | | |
| J051813ALCS | J051813ALCS | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8286 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813ALCD | J051813ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 44 | | ug/L | 5 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 88% | 26% | |
| J051813ALCD | J051813ALCD | ORG | 74-87-3 | Chloromethane | 43 | | ug/L | 5 | 0.43 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 86% | 21% | |
| J051813ALCD | J051813ALCD | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 18% | |
| J051813ALCD | J051813ALCD | ORG | 74-83-9 | Bromomethane | 65 | | ug/L | 5 | 0.50 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 130% | 11% | |
| J051813ALCD | J051813ALCD | ORG | 75-00-3 | Chloroethane | 57 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 114% | 19% | |
| J051813ALCD | J051813ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 18% | |
| J051813ALCD | J051813ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 45 | | ug/L | 1 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 90% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 2% | |
| J051813ALCD | J051813ALCD | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 116% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 90% | 11% | |
| J051813ALCD | J051813ALCD | ORG | 1634-04-4 | MTBE | 46 | | ug/L | 5 | 0.61 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 92% | 8% | |
| J051813ALCD | J051813ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 100% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 106% | 10% | |
| J051813ALCD | J051813ALCD | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 104% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 104% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 112% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 104% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 100% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 55 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 110% | 12% | |
| J051813ALCD | J051813ALCD | ORG | 79-01-6 | Trichloroethene | 51 | | ug/L | 1 | 0.36 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 74-95-3 | Dibromomethane | 56 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 112% | 13% | |
| J051813ALCD | J051813ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 106% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 75-27-4 | Bromodichloromethane | 52 | | ug/L | 2 | 0.12 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 104% | 8% | |
| J051813ALCD | J051813ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 98% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 44 | | ug/L | 1 | 0.21 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 88% | 10% | |
| J051813ALCD | J051813ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.31 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 106% | 8% | |
| J051813ALCD | J051813ALCD | ORG | 127-18-4 | Tetrachloroethene | 54 | | ug/L | 1 | 0.49 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 108% | 27% | |
| J051813ALCD | J051813ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 106% | 14% | |
| J051813ALCD | J051813ALCD | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 108% | 12% | |
| J051813ALCD | J051813ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 106% | 12% | |
| J051813ALCD | J051813ALCD | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 110% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 108-90-7 | Chlorobenzene | 48 | | ug/L | 1 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 100% | 8% | |
| J051813ALCD | J051813ALCD | ORG | XYLMP | p&m-Xylene | 93 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 100 | 93% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 7% | |
| J051813ALCD | J051813ALCD | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 110% | 16% | |
| J051813ALCD | J051813ALCD | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 6% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051813ALCD | J051813ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 58 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 116% | 15% | |
| J051813ALCD | J051813ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 58 | | ug/L | 2 | 0.29 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 116% | 13% | |
| J051813ALCD | J051813ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 92% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 7% | |
| J051813ALCD | J051813ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 94% | 2% | |
| J051813ALCD | J051813ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 4% | |
| J051813ALCD | J051813ALCD | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 92% | 2% | |
| J051813ALCD | J051813ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 90% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 100% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 104-51-8 | n-Butylbenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 92% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 59 | | ug/L | 5 | 1.59 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 118% | 23% | |
| J051813ALCD | J051813ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 0% | |
| J051813ALCD | J051813ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 6% | |
| J051813ALCD | J051813ALCD | ORG | 91-20-3 | Naphthalene | 51 | | ug/L | 5 | 0.56 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 19% | |
| J051813ALCD | J051813ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 98% | 13% | |
| J051813ALCD | J051813ALCD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 104% | 4% | |
| J051813ALCD | J051813ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 102% | 6% | |
| J051813ALCD | J051813ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 96% | 2% | |
| J051813ALCD | J051813ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/18/2013 | 5/18/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8287 | 50 | 100% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213MS | Ops Batch 132 | ORG | 75-71-8 | Dichlorodifluoromethane | 4200 | | ug/L | 500 | 29.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 84% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 74-87-3 | Chloromethane | 4300 | | ug/L | 500 | 43.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-01-4 | Vinyl chloride | 4700 | | ug/L | 200 | 31.86 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 94% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 74-83-9 | Bromomethane | 6800 | | ug/L | 500 | 50.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 136% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-00-3 | Chloroethane | 5800 | | ug/L | 500 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 116% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-69-4 | Trichlorofluoromethane | 4800 | | ug/L | 500 | 19.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-35-4 | 1,1-Dichloroethene | 4700 | | ug/L | 100 | 47.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 94% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-09-2 | Methylene chloride | 4900 | | ug/L | 500 | 26.46 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 67-64-1 | Acetone | 56000 | | ug/L | 1000 | 155.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 200% | | 46000 |
| NAL13026-213MS | Ops Batch 132 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4500 | | ug/L | 100 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 90% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 1634-04-4 | MTBE | 4800 | | ug/L | 500 | 61.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 94% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 67-66-3 | Chloroform | 4900 | | ug/L | 200 | 41.37 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 0% | | 24000 |
| NAL13026-213MS | Ops Batch 132 | ORG | 56-23-5 | Carbon tetrachloride | 5000 | | ug/L | 100 | 27.64 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 71-43-2 | Benzene | 4800 | | ug/L | 100 | 13.53 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 107-06-2 | 1,2-Dichloroethane | 5100 | | ug/L | 100 | 20.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 102% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 79-01-6 | Trichloroethene | 4900 | | ug/L | 100 | 36.33 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 74-95-3 | Dibromomethane | 5100 | | ug/L | 200 | 32.20 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 102% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-27-4 | Bromodichloromethane | 4700 | | ug/L | 200 | 11.58 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 94% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 92% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 97% | | 440 |
| NAL13026-213MS | Ops Batch 132 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4800 | | ug/L | 100 | 31.15 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 127-18-4 | Tetrachloroethene | 4300 | | ug/L | 100 | 48.56 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4700 | | ug/L | 100 | 34.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 94% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 106-93-4 | 1,2-Dibromoethane | 4900 | | ug/L | 200 | 29.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 591-78-6 | 2-Hexanone | 4600 | | ug/L | 200 | 26.49 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 87% | | 250 |
| NAL13026-213MS | Ops Batch 132 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 108-90-7 | Chlorobenzene | 4300 | | ug/L | 100 | 27.52 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4400 | | ug/L | 200 | 19.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 88% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | XYLMP | p&m-Xylene | 8700 | | ug/L | 200 | 26.14 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 10000 | 86% | | 52 |
| NAL13026-213MS | Ops Batch 132 | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 90% | | 21 |
| NAL13026-213MS | Ops Batch 132 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 87% | | 55 |
| NAL13026-213MS | Ops Batch 132 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 98-82-8 | Isopropylbenzene | 4400 | | ug/L | 200 | 20.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 88% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 103-65-1 | n-Propylbenzene | 4400 | | ug/L | 200 | 27.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 87% | | 37 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213MS | Ops Batch 132 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 106% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 106% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 90% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 98-06-6 | tert-Butylbenzene | 4400 | | ug/L | 200 | 32.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 88% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 88% | | 88 |
| NAL13026-213MS | Ops Batch 132 | ORG | 135-98-8 | sec-Butylbenzene | 4400 | | ug/L | 200 | 32.34 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 87% | | 40 |
| NAL13026-213MS | Ops Batch 132 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 90% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | 410 |
| NAL13026-213MS | Ops Batch 132 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4600 | | ug/L | 200 | 33.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 92% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 92% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 104-51-8 | n-Butylbenzene | 4400 | | ug/L | 500 | 27.81 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 86% | | 91 |
| NAL13026-213MS | Ops Batch 132 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5500 | | ug/L | 500 | 159.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 110% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 87-68-3 | Hexachlorobutadiene | 4600 | | ug/L | 500 | 65.42 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 92% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 98% | | |
| NAL13026-213MS | Ops Batch 132 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 93% | | 550 |
| NAL13026-213MS | Ops Batch 132 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4500 | | ug/L | 500 | 23.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 5000 | 90% | | |
| NAL13026-213MS | Ops Batch 132 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 50 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 50 | 100% | | |
| NAL13026-213MS | Ops Batch 132 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 50 | 96% | | |
| NAL13026-213MS | Ops Batch 132 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8288 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-71-8 | Dichlorodifluoromethane | 4200 | | ug/L | 500 | 29.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 84% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 74-87-3 | Chloromethane | 4000 | | ug/L | 500 | 43.07 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 80% | 7% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-01-4 | Vinyl chloride | 4700 | | ug/L | 200 | 31.86 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 74-83-9 | Bromomethane | 6700 | | ug/L | 500 | 50.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 134% | 1% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-00-3 | Chloroethane | 5700 | | ug/L | 500 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 114% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-69-4 | Trichlorofluoromethane | 4900 | | ug/L | 500 | 19.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-35-4 | 1,1-Dichloroethene | 4800 | | ug/L | 100 | 47.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 96% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-09-2 | Methylene chloride | 4900 | | ug/L | 500 | 26.46 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 67-64-1 | Acetone | 55000 | | ug/L | 1000 | 155.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 180% | 2% | 46000 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4600 | | ug/L | 100 | 55.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 1634-04-4 | MTBE | 4700 | | ug/L | 500 | 61.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-34-3 | 1,1-Dichloroethane | 4800 | | ug/L | 100 | 52.66 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 96% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 67-66-3 | Chloroform | 5100 | | ug/L | 200 | 41.37 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 102% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 104% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 0% | 0% | 24000 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 56-23-5 | Carbon tetrachloride | 5100 | | ug/L | 100 | 27.64 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 102% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 71-43-2 | Benzene | 4900 | | ug/L | 100 | 13.53 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 106% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 79-01-6 | Trichloroethene | 5000 | | ug/L | 100 | 36.33 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 74-95-3 | Dibromomethane | 5300 | | ug/L | 200 | 32.20 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 106% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 78-87-5 | 1,2-Dichloropropane | 5200 | | ug/L | 100 | 18.17 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 104% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 108-88-3 | Toluene | 4900 | | ug/L | 500 | 74.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 100 | 20.96 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 93% | 4% | 440 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 102% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 127-18-4 | Tetrachloroethene | 4400 | | ug/L | 100 | 48.56 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 88% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 104% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 104% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 591-78-6 | 2-Hexanone | 4500 | | ug/L | 200 | 26.49 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 85% | 2% | 250 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 7% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 7% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4700 | | ug/L | 200 | 19.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 7% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | XYLMP | p&m-Xylene | 9200 | | ug/L | 200 | 26.14 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 10000 | 91% | 6% | 52 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 4% | 21 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 91% | 4% | 55 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 75-25-2 | Bromoform | 5200 | | ug/L | 200 | 46.83 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 104% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 7% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 93% | 7% | 37 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-213MSD | Ops Batch 132 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5600 | | ug/L | 200 | 29.16 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 112% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5400 | | ug/L | 200 | 29.47 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 108% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 4% | 88 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 135-98-8 | sec-Butylbenzene | 4700 | | ug/L | 200 | 32.34 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 93% | 7% | 40 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 92% | 6% | 410 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4800 | | ug/L | 200 | 33.03 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 96% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 98% | 6% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 104-51-8 | n-Butylbenzene | 4600 | | ug/L | 500 | 27.81 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 90% | 4% | 91 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5800 | | ug/L | 500 | 159.11 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 116% | 5% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 8% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 100% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 91-20-3 | Naphthalene | 5400 | | ug/L | 500 | 56.04 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 97% | 4% | 550 |
| NAL13026-213MSD | Ops Batch 132 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 5000 | 94% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 50 | 104% | 4% | 0 |
| NAL13026-213MSD | Ops Batch 132 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 50 | 98% | 2% | 0 |
| NAL13026-213MSD | Ops Batch 132 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 50 | 96% | 0% | 0 |
| NAL13026-213MSD | Ops Batch 132 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/18/2013 | 5/18/2013 | 5/18/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8289 | 50 | 102% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215 | OB-134 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 67-64-1 | Acetone | 36000 | D | ug/L | 10000 | 1556.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8296 | | | | |
| NAL13026-215 | OB-134 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 78-93-3 | 2-Butanone | 19000 | | ug/L | 1000 | 81.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 71-43-2 | Benzene | 35 | J | ug/L | 100 | 13.53 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 530 | | ug/L | 500 | 74.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215 | OB-134 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 200 | 25.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 104-51-8 | n-Butylbenzene | 49 | J | ug/L | 500 | 27.81 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 91-20-3 | Naphthalene | 240 | JX- | ug/L | 500 | 56.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | | | | |
| NAL13026-215 | OB-134 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | 50 | 102% | | |
| NAL13026-215 | OB-134 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | 50 | 106% | | |
| NAL13026-215 | OB-134 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | 50 | 94% | | |
| NAL13026-215 | OB-134 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8295 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-216 | OB-135 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 67-64-1 | Acetone | 41000 | D | ug/L | 5000 | 778.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8298 | | | | |
| NAL13026-216 | OB-135 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 78-93-3 | 2-Butanone | 20000 | | ug/L | 1000 | 16.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 570 | | ug/L | 500 | 20.96 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-216 | OB-135 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 99-87-6 | p-Isopropltoluene | 97 | J | ug/L | 200 | 25.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 91-20-3 | Naphthalene | 230 | JX- | ug/L | 500 | 56.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | | | | |
| NAL13026-216 | OB-135 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | 50 | 106% | | |
| NAL13026-216 | OB-135 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | 50 | 110% | | |
| NAL13026-216 | OB-135 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | 50 | 94% | | |
| NAL13026-216 | OB-135 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8297 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-217 | 136-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 67-64-1 | Acetone | 50000 | D | ug/L | 5000 | 778.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8303 | | | | |
| NAL13026-217 | 136-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 5000 | 83.26 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8303 | | | | |
| NAL13026-217 | 136-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 720 | | ug/L | 500 | 20.96 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 591-78-6 | 2-Hexanone | 390 | J | ug/L | 500 | 26.49 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-217 | 136-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 200 | 25.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 91-20-3 | Naphthalene | 200 | JX- | ug/L | 500 | 56.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | | | | |
| NAL13026-217 | 136-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | 50 | 100% | | |
| NAL13026-217 | 136-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | 50 | 104% | | |
| NAL13026-217 | 136-MSD | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | 50 | 94% | | |
| NAL13026-217 | 136-MSD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8302 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913CCVA | J051913CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 41 | | ug/L | 5 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 82% | | |
| J051913CCVA | J051913CCVA | ORG | 74-87-3 | Chloromethane | 46 | | ug/L | 5 | 0.43 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 75-01-4 | Vinyl chloride | 46 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 74-83-9 | Bromomethane | 73 | | ug/L | 5 | 0.50 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 146% | | |
| J051913CCVA | J051913CCVA | ORG | 75-00-3 | Chloroethane | 59 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 118% | | |
| J051913CCVA | J051913CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 104% | | |
| J051913CCVA | J051913CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | ORG | 1634-04-4 | MTBE | 44 | | ug/L | 5 | 0.61 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 88% | | |
| J051913CCVA | J051913CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | ORG | 74-97-5 | Bromochloromethane | 46 | | ug/L | 10 | 0.81 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 67-66-3 | Chloroform | 48 | | ug/L | 2 | 0.41 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 78-93-3 | 2-Butanone | 49 | | ug/L | 1 | 0.17 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 71-43-2 | Benzene | 50 | | ug/L | 1 | 0.14 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 94% | | |
| J051913CCVA | J051913CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 104% | | |
| J051913CCVA | J051913CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 56 | | ug/L | 1 | 0.21 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 112% | | |
| J051913CCVA | J051913CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 82% | | |
| J051913CCVA | J051913CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 94% | | |
| J051913CCVA | J051913CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 94% | | |
| J051913CCVA | J051913CCVA | ORG | 591-78-6 | 2-Hexanone | 50 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 94% | | |
| J051913CCVA | J051913CCVA | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 94% | | |
| J051913CCVA | J051913CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 96% | | |
| J051913CCVA | J051913CCVA | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 100 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 75-25-2 | Bromoform | 44 | | ug/L | 2 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 88% | | |
| J051913CCVA | J051913CCVA | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913CCVA | J051913CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 86% | | |
| J051913CCVA | J051913CCVA | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 88% | | |
| J051913CCVA | J051913CCVA | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 90% | | |
| J051913CCVA | J051913CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 42 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 84% | | |
| J051913CCVA | J051913CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 88% | | |
| J051913CCVA | J051913CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 40 | | ug/L | 5 | 1.59 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 80% | | |
| J051913CCVA | J051913CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 102% | | |
| J051913CCVA | J051913CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 92% | | |
| J051913CCVA | J051913CCVA | ORG | 91-20-3 | Naphthalene | 37 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 74% | | |
| J051913CCVA | J051913CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 41 | | ug/L | 5 | 0.23 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 82% | | |
| J051913CCVA | J051913CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 100% | | |
| J051913CCVA | J051913CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 44 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 88% | | |
| J051913CCVA | J051913CCVA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |
| J051913CCVA | J051913CCVA | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8291 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913MBKA | J051913MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913MBKA | J051913MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | | | | |
| J051913MBKA | J051913MBKA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | 50 | 104% | | |
| J051913MBKA | J051913MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | 50 | 108% | | |
| J051913MBKA | J051913MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | 50 | 94% | | |
| J051913MBKA | J051913MBKA | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8294 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913ALCS | J051913ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 38 | | ug/L | 5 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 76% | | |
| J051913ALCS | J051913ALCS | ORG | 74-87-3 | Chloromethane | 51 | | ug/L | 5 | 0.43 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 102% | | |
| J051913ALCS | J051913ALCS | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 96% | | |
| J051913ALCS | J051913ALCS | ORG | 74-83-9 | Bromomethane | 67 | | ug/L | 5 | 0.50 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 134% | | |
| J051913ALCS | J051913ALCS | ORG | 75-00-3 | Chloroethane | 57 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 114% | | |
| J051913ALCS | J051913ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 106% | | |
| J051913ALCS | J051913ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 59 | | ug/L | 1 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 118% | | |
| J051913ALCS | J051913ALCS | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 114% | | |
| J051913ALCS | J051913ALCS | ORG | 67-64-1 | Acetone | 63 | | ug/L | 10 | 1.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 126% | | |
| J051913ALCS | J051913ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 108% | | |
| J051913ALCS | J051913ALCS | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 110% | | |
| J051913ALCS | J051913ALCS | ORG | 67-66-3 | Chloroform | 52 | | ug/L | 2 | 0.41 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 106% | | |
| J051913ALCS | J051913ALCS | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 106% | | |
| J051913ALCS | J051913ALCS | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 108% | | |
| J051913ALCS | J051913ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 106% | | |
| J051913ALCS | J051913ALCS | ORG | 74-95-3 | Dibromomethane | 53 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 106% | | |
| J051913ALCS | J051913ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 108% | | |
| J051913ALCS | J051913ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 1 | 0.21 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 114% | | |
| J051913ALCS | J051913ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 127-18-4 | Tetrachloroethene | 43 | | ug/L | 1 | 0.49 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 86% | | |
| J051913ALCS | J051913ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 102% | | |
| J051913ALCS | J051913ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 102% | | |
| J051913ALCS | J051913ALCS | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 110% | | |
| J051913ALCS | J051913ALCS | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | XYLMP | p&m-Xylene | 94 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 100 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913ALCS | J051913ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 100% | | |
| J051913ALCS | J051913ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 92% | | |
| J051913ALCS | J051913ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 96% | | |
| J051913ALCS | J051913ALCS | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 96% | | |
| J051913ALCS | J051913ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 49 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 98% | | |
| J051913ALCS | J051913ALCS | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 49 | | ug/L | 5 | 0.65 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 98% | | |
| J051913ALCS | J051913ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 104% | | |
| J051913ALCS | J051913ALCS | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 90% | | |
| J051913ALCS | J051913ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |
| J051913ALCS | J051913ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 102% | | |
| J051913ALCS | J051913ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 96% | | |
| J051913ALCS | J051913ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 96% | | |
| J051913ALCS | J051913ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8292 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913ALCD | J051913ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 36 | | ug/L | 5 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 72% | 5% | |
| J051913ALCD | J051913ALCD | ORG | 74-87-3 | Chloromethane | 48 | | ug/L | 5 | 0.43 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 96% | 6% | |
| J051913ALCD | J051913ALCD | ORG | 75-01-4 | Vinyl chloride | 46 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 92% | 4% | |
| J051913ALCD | J051913ALCD | ORG | 74-83-9 | Bromomethane | 49 | | ug/L | 5 | 0.50 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 98% | 31% | |
| J051913ALCD | J051913ALCD | ORG | 75-00-3 | Chloroethane | 58 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 116% | 2% | |
| J051913ALCD | J051913ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 57 | | ug/L | 5 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 57 | | ug/L | 1 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 3% | |
| J051913ALCD | J051913ALCD | ORG | 75-09-2 | Methylene chloride | 59 | | ug/L | 5 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 118% | 3% | |
| J051913ALCD | J051913ALCD | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 116% | 8% | |
| J051913ALCD | J051913ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 8% | |
| J051913ALCD | J051913ALCD | ORG | 1634-04-4 | MTBE | 45 | | ug/L | 5 | 0.61 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 90% | 4% | |
| J051913ALCD | J051913ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 104% | 0% | |
| J051913ALCD | J051913ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 4% | |
| J051913ALCD | J051913ALCD | ORG | 74-97-5 | Bromochloromethane | 57 | | ug/L | 10 | 0.81 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 4% | |
| J051913ALCD | J051913ALCD | ORG | 67-66-3 | Chloroform | 56 | | ug/L | 2 | 0.41 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 58 | | ug/L | 1 | 0.16 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 116% | 9% | |
| J051913ALCD | J051913ALCD | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 56-23-5 | Carbon tetrachloride | 58 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 116% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 4% | |
| J051913ALCD | J051913ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 57 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 9% | |
| J051913ALCD | J051913ALCD | ORG | 79-01-6 | Trichloroethene | 56 | | ug/L | 1 | 0.36 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 6% | |
| J051913ALCD | J051913ALCD | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 55 | | ug/L | 1 | 0.18 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 2% | |
| J051913ALCD | J051913ALCD | ORG | 75-27-4 | Bromodichloromethane | 57 | | ug/L | 2 | 0.12 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 13% | |
| J051913ALCD | J051913ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 57 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 9% | |
| J051913ALCD | J051913ALCD | ORG | 108-88-3 | Toluene | 56 | | ug/L | 5 | 0.74 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 11% | |
| J051913ALCD | J051913ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 1 | 0.21 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 122% | 7% | |
| J051913ALCD | J051913ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 59 | | ug/L | 1 | 0.31 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 118% | 13% | |
| J051913ALCD | J051913ALCD | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 100% | 15% | |
| J051913ALCD | J051913ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 57 | | ug/L | 1 | 0.34 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 13% | |
| J051913ALCD | J051913ALCD | ORG | 124-48-1 | Dibromochloromethane | 58 | | ug/L | 5 | 0.69 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 116% | 13% | |
| J051913ALCD | J051913ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 59 | | ug/L | 2 | 0.30 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 118% | 15% | |
| J051913ALCD | J051913ALCD | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 2% | |
| J051913ALCD | J051913ALCD | ORG | 100-41-4 | Ethylbenzene | 54 | | ug/L | 1 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 108-90-7 | Chlorobenzene | 55 | | ug/L | 1 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 18% | |
| J051913ALCD | J051913ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.19 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 16% | |
| J051913ALCD | J051913ALCD | ORG | XYLMP | p&m-Xylene | 110 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 100 | 110% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 95-47-6 | o-Xylene | 55 | | ug/L | 1 | 0.13 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 100-42-5 | Styrene | 54 | | ug/L | 1 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 75-25-2 | Bromoform | 56 | | ug/L | 2 | 0.47 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 17% | |
| J051913ALCD | J051913ALCD | ORG | 98-82-8 | Isopropylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 103-65-1 | n-Propylbenzene | 55 | | ug/L | 2 | 0.27 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 16% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J051913ALCD | J051913ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 10% | |
| J051913ALCD | J051913ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 56 | | ug/L | 2 | 0.29 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 112% | 11% | |
| J051913ALCD | J051913ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 98-06-6 | tert-Butylbenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 106% | 14% | |
| J051913ALCD | J051913ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 135-98-8 | sec-Butylbenzene | 55 | | ug/L | 2 | 0.32 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 18% | |
| J051913ALCD | J051913ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 54 | | ug/L | 2 | 0.22 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 12% | |
| J051913ALCD | J051913ALCD | ORG | 99-87-6 | p-Isopropltoluene | 55 | | ug/L | 2 | 0.25 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 110% | 16% | |
| J051913ALCD | J051913ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 106% | 10% | |
| J051913ALCD | J051913ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 106% | 8% | |
| J051913ALCD | J051913ALCD | ORG | 104-51-8 | n-Butylbenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 14% | |
| J051913ALCD | J051913ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 14% | |
| J051913ALCD | J051913ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 57 | | ug/L | 5 | 0.65 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 15% | |
| J051913ALCD | J051913ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 57 | | ug/L | 5 | 0.28 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 114% | 9% | |
| J051913ALCD | J051913ALCD | ORG | 91-20-3 | Naphthalene | 54 | | ug/L | 5 | 0.56 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 18% | |
| J051913ALCD | J051913ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 54 | | ug/L | 5 | 0.23 | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 108% | 14% | |
| J051913ALCD | J051913ALCD | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 98% | 4% | |
| J051913ALCD | J051913ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 46 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 92% | 4% | |
| J051913ALCD | J051913ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 96% | 0% | |
| J051913ALCD | J051913ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/19/2013 | 5/19/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8293 | 50 | 98% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215MS | OB-134MS | ORG | 75-71-8 | Dichlorodifluoromethane | 3200 | | ug/L | 500 | 29.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 64% | | |
| NAL13026-215MS | OB-134MS | ORG | 74-87-3 | Chloromethane | 4800 | | ug/L | 500 | 43.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 96% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-01-4 | Vinyl chloride | 4600 | | ug/L | 200 | 31.86 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 92% | | |
| NAL13026-215MS | OB-134MS | ORG | 74-83-9 | Bromomethane | 5200 | | ug/L | 500 | 50.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-00-3 | Chloroethane | 4800 | | ug/L | 500 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 96% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-69-4 | Trichlorofluoromethane | 5500 | | ug/L | 500 | 19.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-35-4 | 1,1-Dichloroethene | 5600 | | ug/L | 100 | 47.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 112% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-09-2 | Methylene chloride | 5400 | | ug/L | 500 | 26.46 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 67-64-1 | Acetone | 43600 | | ug/L | 1000 | 155.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 152% | | 36000 |
| NAL13026-215MS | OB-134MS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5100 | | ug/L | 100 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 102% | | |
| NAL13026-215MS | OB-134MS | ORG | 1634-04-4 | MTBE | 4500 | | ug/L | 500 | 61.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 90% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 102% | | |
| NAL13026-215MS | OB-134MS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5400 | | ug/L | 100 | 32.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 74-97-5 | Bromochloromethane | 5400 | | ug/L | 1000 | 81.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 67-66-3 | Chloroform | 5500 | | ug/L | 200 | 41.37 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5500 | | ug/L | 100 | 15.73 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 78-93-3 | 2-Butanone | 23800 | | ug/L | 100 | 16.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 96% | | 19000 |
| NAL13026-215MS | OB-134MS | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 112% | | |
| NAL13026-215MS | OB-134MS | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 103% | | 35 |
| NAL13026-215MS | OB-134MS | ORG | 107-06-2 | 1,2-Dichloroethane | 5600 | | ug/L | 100 | 20.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 112% | | |
| NAL13026-215MS | OB-134MS | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 78-87-5 | 1,2-Dichloropropane | 5200 | | ug/L | 100 | 18.17 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5300 | | ug/L | 100 | 25.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 106% | | |
| NAL13026-215MS | OB-134MS | ORG | 108-88-3 | Toluene | 5200 | | ug/L | 500 | 74.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4600 | | ug/L | 100 | 20.96 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 81% | | 530 |
| NAL13026-215MS | OB-134MS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 90% | | |
| NAL13026-215MS | OB-134MS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 102% | | |
| NAL13026-215MS | OB-134MS | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 102% | | |
| NAL13026-215MS | OB-134MS | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 106% | | |
| NAL13026-215MS | OB-134MS | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 82% | | |
| NAL13026-215MS | OB-134MS | ORG | 100-41-4 | Ethylbenzene | 6000 | | ug/L | 100 | 25.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 120% | | |
| NAL13026-215MS | OB-134MS | ORG | 108-90-7 | Chlorobenzene | 5900 | | ug/L | 100 | 27.52 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 118% | | |
| NAL13026-215MS | OB-134MS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5700 | | ug/L | 200 | 19.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 114% | | |
| NAL13026-215MS | OB-134MS | ORG | XYLMP | p&m-Xylene | 11900 | | ug/L | 200 | 26.14 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 10000 | 119% | | |
| NAL13026-215MS | OB-134MS | ORG | 95-47-6 | o-Xylene | 5900 | | ug/L | 100 | 12.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 118% | | |
| NAL13026-215MS | OB-134MS | ORG | 100-42-5 | Styrene | 5400 | | ug/L | 100 | 20.23 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 75-25-2 | Bromoform | 5500 | | ug/L | 200 | 46.83 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 98-82-8 | Isopropylbenzene | 5700 | | ug/L | 200 | 20.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 114% | | |
| NAL13026-215MS | OB-134MS | ORG | 103-65-1 | n-Propylbenzene | 5600 | | ug/L | 200 | 27.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 112% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215MS | OB-134MS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 106% | | |
| NAL13026-215MS | OB-134MS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5400 | | ug/L | 200 | 29.47 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5500 | | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | ORG | 98-06-6 | tert-Butylbenzene | 5200 | | ug/L | 200 | 32.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 106% | | |
| NAL13026-215MS | OB-134MS | ORG | 135-98-8 | sec-Butylbenzene | 5300 | | ug/L | 200 | 32.34 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 106% | | |
| NAL13026-215MS | OB-134MS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 99-87-6 | p-Isopropltoluene | 5400 | | ug/L | 200 | 25.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 108% | | |
| NAL13026-215MS | OB-134MS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 94% | | |
| NAL13026-215MS | OB-134MS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 98% | | |
| NAL13026-215MS | OB-134MS | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 103% | | 49 |
| NAL13026-215MS | OB-134MS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5800 | | ug/L | 500 | 159.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 116% | | |
| NAL13026-215MS | OB-134MS | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 104% | | |
| NAL13026-215MS | OB-134MS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5600 | | ug/L | 500 | 27.63 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 112% | | |
| NAL13026-215MS | OB-134MS | ORG | 91-20-3 | Naphthalene | 5800 | | ug/L | 500 | 56.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 111% | | 240 |
| NAL13026-215MS | OB-134MS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5500 | | ug/L | 500 | 23.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 5000 | 110% | | |
| NAL13026-215MS | OB-134MS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 50 | 102% | | |
| NAL13026-215MS | OB-134MS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 50 | 98% | | |
| NAL13026-215MS | OB-134MS | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 50 | 98% | | |
| NAL13026-215MS | OB-134MS | STD | 460-00-4 | Bromofluorobenzene | 55 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8299 | 50 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215MSD | OB-134MSD | ORG | 75-71-8 | Dichlorodifluoromethane | 3300 | | ug/L | 500 | 29.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 66% | 3% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 74-87-3 | Chloromethane | 4500 | | ug/L | 500 | 43.07 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 90% | 6% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-01-4 | Vinyl chloride | 4700 | | ug/L | 200 | 31.86 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 94% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 74-83-9 | Bromomethane | 5200 | | ug/L | 500 | 50.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-00-3 | Chloroethane | 5100 | | ug/L | 500 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 102% | 6% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-69-4 | Trichlorofluoromethane | 5700 | | ug/L | 500 | 19.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 114% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-35-4 | 1,1-Dichloroethene | 5700 | | ug/L | 100 | 47.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 114% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-09-2 | Methylene chloride | 5500 | | ug/L | 500 | 26.46 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 110% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 67-64-1 | Acetone | 41800 | | ug/L | 1000 | 155.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 116% | 4% | 36000 |
| NAL13026-215MSD | OB-134MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5200 | | ug/L | 100 | 55.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 1634-04-4 | MTBE | 4900 | | ug/L | 500 | 61.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 98% | 9% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-34-3 | 1,1-Dichloroethane | 5300 | | ug/L | 100 | 52.66 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5300 | | ug/L | 100 | 32.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 74-97-5 | Bromochloromethane | 5400 | | ug/L | 1000 | 81.18 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 108% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 67-66-3 | Chloroform | 5500 | | ug/L | 200 | 41.37 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 110% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5500 | | ug/L | 100 | 15.73 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 110% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 78-93-3 | 2-Butanone | 21500 | | ug/L | 100 | 16.65 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 50% | 10% | 19000 |
| NAL13026-215MSD | OB-134MSD | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 112% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 103% | 0% | 35 |
| NAL13026-215MSD | OB-134MSD | ORG | 107-06-2 | 1,2-Dichloroethane | 5600 | | ug/L | 100 | 20.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 112% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 79-01-6 | Trichloroethene | 5600 | | ug/L | 100 | 36.33 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 112% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 74-95-3 | Dibromomethane | 5600 | | ug/L | 200 | 32.20 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 112% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 78-87-5 | 1,2-Dichloropropane | 5300 | | ug/L | 100 | 18.17 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-27-4 | Bromodichloromethane | 5300 | | ug/L | 200 | 11.58 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5300 | | ug/L | 100 | 25.01 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 108-88-3 | Toluene | 5200 | | ug/L | 500 | 74.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4700 | | ug/L | 100 | 20.96 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 83% | 2% | 530 |
| NAL13026-215MSD | OB-134MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 92% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 102% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 102% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 82% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 100-41-4 | Ethylbenzene | 5900 | | ug/L | 100 | 25.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 118% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 108-90-7 | Chlorobenzene | 5900 | | ug/L | 100 | 27.52 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 118% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5800 | | ug/L | 200 | 19.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 116% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | XYLMP | p&m-Xylene | 11800 | | ug/L | 200 | 26.14 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 10000 | 118% | 1% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 95-47-6 | o-Xylene | 5800 | | ug/L | 100 | 12.90 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 116% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 100-42-5 | Styrene | 5400 | | ug/L | 100 | 20.23 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 108% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 98-82-8 | Isopropylbenzene | 5700 | | ug/L | 200 | 20.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 114% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 103-65-1 | n-Propylbenzene | 5600 | | ug/L | 200 | 27.00 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 112% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-215MSD | OB-134MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | | ug/L | 200 | 29.16 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 100% | 6% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 98-06-6 | tert-Butylbenzene | 5400 | | ug/L | 200 | 32.61 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 108% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 106% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 135-98-8 | sec-Butylbenzene | 5200 | | ug/L | 200 | 32.34 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 100% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 99-87-6 | p-Isopropltoluene | 5200 | | ug/L | 200 | 25.48 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 104% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 98% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 98% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 101% | 2% | 49 |
| NAL13026-215MSD | OB-134MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 108% | 7% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 100% | 4% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5700 | | ug/L | 500 | 27.63 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 114% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | ORG | 91-20-3 | Naphthalene | 5500 | | ug/L | 500 | 56.04 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 105% | 5% | 240 |
| NAL13026-215MSD | OB-134MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5400 | | ug/L | 500 | 23.28 | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 5000 | 108% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 50 | 104% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 50 | 96% | 2% | 0 |
| NAL13026-215MSD | OB-134MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 50 | 98% | 0% | 0 |
| NAL13026-215MSD | OB-134MSD | STD | 460-00-4 | Bromofluorobenzene | 54 | | ng | | | 5/19/2013 | 5/19/2013 | 5/19/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8300 | 50 | 108% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218 | OB-137 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 67-64-1 | Acetone | 36000 | D | ug/L | 5000 | 778.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8308 | | | | |
| NAL13026-218 | OB-137 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 78-93-3 | 2-Butanone | 18000 | | ug/L | 1000 | 81.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 480 | J | ug/L | 500 | 74.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 591-78-6 | 2-Hexanone | 240 | J | ug/L | 500 | 68.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218 | OB-137 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 99-87-6 | p-Isopropltoluene | 53 | J | ug/L | 200 | 25.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 91-20-3 | Naphthalene | 190 | J | ug/L | 500 | 56.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | | | | |
| NAL13026-218 | OB-137 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | 50 | 100% | | |
| NAL13026-218 | OB-137 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | 50 | 106% | | |
| NAL13026-218 | OB-137 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | 50 | 92% | | |
| NAL13026-218 | OB-137 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8307 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-219 | BATCH 138-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 67-64-1 | Acetone | 37000 | D | ug/L | 5000 | 778.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8313 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 78-93-3 | 2-Butanone | 16000 | | ug/L | 1000 | 16.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 450 | J | ug/L | 500 | 20.96 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 591-78-6 | 2-Hexanone | 180 | J | ug/L | 500 | 26.49 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-219 | BATCH 138-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 99-87-6 | p-Isopropltoluene | 40 | J | ug/L | 200 | 25.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 91-20-3 | Naphthalene | 180 | J | ug/L | 500 | 56.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | | | | |
| NAL13026-219 | BATCH 138-MSD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | 50 | 108% | | |
| NAL13026-219 | BATCH 138-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | 50 | 106% | | |
| NAL13026-219 | BATCH 138-MSD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | 50 | 92% | | |
| NAL13026-219 | BATCH 138-MSD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8312 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-220 | OPS BATCH 139 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 67-64-1 | Acetone | 69000 | D | ug/L | 5000 | 778.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8319 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 78-93-3 | 2-Butanone | 34000 | D | ug/L | 5000 | 83.26 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8319 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 670 | | ug/L | 500 | 20.96 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 591-78-6 | 2-Hexanone | 360 | J | ug/L | 500 | 26.49 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-220 | OPS BATCH 139 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 99-87-6 | p-Isopropltoluene | 530 | | ug/L | 200 | 25.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 130 | J | ug/L | 200 | 33.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 91-20-3 | Naphthalene | 400 | J | ug/L | 500 | 56.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | | | | |
| NAL13026-220 | OPS BATCH 139 | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | 50 | 114% | | |
| NAL13026-220 | OPS BATCH 139 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | 50 | 110% | | |
| NAL13026-220 | OPS BATCH 139 | STD | 2037-26-5 | Toluene d8 | 41 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | 50 | 82% | | |
| NAL13026-220 | OPS BATCH 139 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8318 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013CCVA | J052013CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 47 | | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 94% | | |
| J052013CCVA | J052013CCVA | ORG | 74-87-3 | Chloromethane | 59 | | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 118% | | |
| J052013CCVA | J052013CCVA | ORG | 75-01-4 | Vinyl chloride | 60 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 120% | | |
| J052013CCVA | J052013CCVA | ORG | 74-83-9 | Bromomethane | 64 | | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 128% | | |
| J052013CCVA | J052013CCVA | ORG | 75-00-3 | Chloroethane | 62 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 124% | | |
| J052013CCVA | J052013CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 61 | | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 122% | | |
| J052013CCVA | J052013CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 55 | | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | 67-64-1 | Acetone | 59 | | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 118% | | |
| J052013CCVA | J052013CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 100% | | |
| J052013CCVA | J052013CCVA | ORG | 1634-04-4 | MTBE | 45 | | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 90% | | |
| J052013CCVA | J052013CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 54 | | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 112% | | |
| J052013CCVA | J052013CCVA | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 54 | | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 71-43-2 | Benzene | 55 | | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 106% | | |
| J052013CCVA | J052013CCVA | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 74-95-3 | Dibromomethane | 56 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 112% | | |
| J052013CCVA | J052013CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 59 | | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 118% | | |
| J052013CCVA | J052013CCVA | ORG | 75-27-4 | Bromodichloromethane | 55 | | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 57 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | 108-88-3 | Toluene | 54 | | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 47 | | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 94% | | |
| J052013CCVA | J052013CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 57 | | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 94% | | |
| J052013CCVA | J052013CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 54 | | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 104% | | |
| J052013CCVA | J052013CCVA | ORG | 100-41-4 | Ethylbenzene | 57 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | 108-90-7 | Chlorobenzene | 58 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 116% | | |
| J052013CCVA | J052013CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | XYLMP | p&m-Xylene | 110 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 100 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 95-47-6 | o-Xylene | 56 | | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 112% | | |
| J052013CCVA | J052013CCVA | ORG | 100-42-5 | Styrene | 55 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 75-25-2 | Bromoform | 55 | | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 98-82-8 | Isopropylbenzene | 56 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 112% | | |
| J052013CCVA | J052013CCVA | ORG | 103-65-1 | n-Propylbenzene | 55 | | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013CCVA | J052013CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 104% | | |
| J052013CCVA | J052013CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 98-06-6 | tert-Butylbenzene | 54 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 135-98-8 | sec-Butylbenzene | 55 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 110% | | |
| J052013CCVA | J052013CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 54 | | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 99-87-6 | p-Isopropltoluene | 54 | | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 108% | | |
| J052013CCVA | J052013CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 106% | | |
| J052013CCVA | J052013CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 104% | | |
| J052013CCVA | J052013CCVA | ORG | 104-51-8 | n-Butylbenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 106% | | |
| J052013CCVA | J052013CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 98% | | |
| J052013CCVA | J052013CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 112% | | |
| J052013CCVA | J052013CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 57 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 114% | | |
| J052013CCVA | J052013CCVA | ORG | 91-20-3 | Naphthalene | 50 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 100% | | |
| J052013CCVA | J052013CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 104% | | |
| J052013CCVA | J052013CCVA | STD | 1868-53-7 | Dibromofluoromethane | 47 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 94% | | |
| J052013CCVA | J052013CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 43 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 86% | | |
| J052013CCVA | J052013CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 94% | | |
| J052013CCVA | J052013CCVA | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8305 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013MBKA | J052013MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013MBKA | J052013MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | | | | |
| J052013MBKA | J052013MBKA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | 50 | 104% | | |
| J052013MBKA | J052013MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | 50 | 104% | | |
| J052013MBKA | J052013MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | 50 | 94% | | |
| J052013MBKA | J052013MBKA | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8306 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013CCVB | J052013CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 33 | | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 66% | | |
| J052013CCVB | J052013CCVB | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 94% | | |
| J052013CCVB | J052013CCVB | ORG | 75-01-4 | Vinyl chloride | 49 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 98% | | |
| J052013CCVB | J052013CCVB | ORG | 74-83-9 | Bromomethane | 49 | | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 98% | | |
| J052013CCVB | J052013CCVB | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 96% | | |
| J052013CCVB | J052013CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 57 | | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 114% | | |
| J052013CCVB | J052013CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 58 | | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 114% | | |
| J052013CCVB | J052013CCVB | ORG | 67-64-1 | Acetone | 53 | | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 106% | | |
| J052013CCVB | J052013CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 47 | | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 94% | | |
| J052013CCVB | J052013CCVB | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 112% | | |
| J052013CCVB | J052013CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 58 | | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 74-97-5 | Bromochloromethane | 58 | | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 67-66-3 | Chloroform | 59 | | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 118% | | |
| J052013CCVB | J052013CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 57 | | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 114% | | |
| J052013CCVB | J052013CCVB | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 118% | | |
| J052013CCVB | J052013CCVB | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 110% | | |
| J052013CCVB | J052013CCVB | ORG | 71-43-2 | Benzene | 59 | | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 118% | | |
| J052013CCVB | J052013CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 79-01-6 | Trichloroethene | 58 | | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 74-95-3 | Dibromomethane | 58 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 112% | | |
| J052013CCVB | J052013CCVB | ORG | 75-27-4 | Bromodichloromethane | 57 | | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 114% | | |
| J052013CCVB | J052013CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 58 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 108-88-3 | Toluene | 56 | | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 112% | | |
| J052013CCVB | J052013CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 118% | | |
| J052013CCVB | J052013CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 58 | | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 116% | | |
| J052013CCVB | J052013CCVB | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 100% | | |
| J052013CCVB | J052013CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 106% | | |
| J052013CCVB | J052013CCVB | ORG | 124-48-1 | Dibromochloromethane | 55 | | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 110% | | |
| J052013CCVB | J052013CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 57 | | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 114% | | |
| J052013CCVB | J052013CCVB | ORG | 591-78-6 | 2-Hexanone | 50 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 100% | | |
| J052013CCVB | J052013CCVB | ORG | 100-41-4 | Ethylbenzene | 56 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 112% | | |
| J052013CCVB | J052013CCVB | ORG | 108-90-7 | Chlorobenzene | 55 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 110% | | |
| J052013CCVB | J052013CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 110% | | |
| J052013CCVB | J052013CCVB | ORG | XYLMP | p&m-Xylene | 110 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 100 | 110% | | |
| J052013CCVB | J052013CCVB | ORG | 95-47-6 | o-Xylene | 54 | | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 108% | | |
| J052013CCVB | J052013CCVB | ORG | 100-42-5 | Styrene | 53 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 106% | | |
| J052013CCVB | J052013CCVB | ORG | 75-25-2 | Bromoform | 51 | | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | ORG | 98-82-8 | Isopropylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 108% | | |
| J052013CCVB | J052013CCVB | ORG | 103-65-1 | n-Propylbenzene | 53 | | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 106% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013CCVB | J052013CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 94% | | |
| J052013CCVB | J052013CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 100% | | |
| J052013CCVB | J052013CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 53 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 106% | | |
| J052013CCVB | J052013CCVB | ORG | 98-06-6 | tert-Butylbenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 52 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 104% | | |
| J052013CCVB | J052013CCVB | ORG | 135-98-8 | sec-Butylbenzene | 52 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 104% | | |
| J052013CCVB | J052013CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | ORG | 99-87-6 | p-Isopropltoluene | 51 | | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 96% | | |
| J052013CCVB | J052013CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 96% | | |
| J052013CCVB | J052013CCVB | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 100% | | |
| J052013CCVB | J052013CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 98% | | |
| J052013CCVB | J052013CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 104% | | |
| J052013CCVB | J052013CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 108% | | |
| J052013CCVB | J052013CCVB | ORG | 91-20-3 | Naphthalene | 51 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 102% | | |
| J052013CCVB | J052013CCVB | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 104% | | |
| J052013CCVB | J052013CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 90% | | |
| J052013CCVB | J052013CCVB | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 86% | | |
| J052013CCVB | J052013CCVB | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8316 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013MBKB | J052013MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013MBKB | J052013MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | | | | |
| J052013MBKB | J052013MBKB | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | 50 | 108% | | |
| J052013MBKB | J052013MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | 50 | 110% | | |
| J052013MBKB | J052013MBKB | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | 50 | 94% | | |
| J052013MBKB | J052013MBKB | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8317 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013ALCS | J052013ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 32 | | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 64% | | |
| J052013ALCS | J052013ALCS | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 94% | | |
| J052013ALCS | J052013ALCS | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 86% | | |
| J052013ALCS | J052013ALCS | ORG | 74-83-9 | Bromomethane | 45 | | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 75-00-3 | Chloroethane | 51 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 106% | | |
| J052013ALCS | J052013ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 98% | | |
| J052013ALCS | J052013ALCS | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 114% | | |
| J052013ALCS | J052013ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 1634-04-4 | MTBE | 43 | | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 86% | | |
| J052013ALCS | J052013ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 98% | | |
| J052013ALCS | J052013ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 100% | | |
| J052013ALCS | J052013ALCS | ORG | 74-97-5 | Bromochloromethane | 52 | | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 104% | | |
| J052013ALCS | J052013ALCS | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 118% | | |
| J052013ALCS | J052013ALCS | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 96% | | |
| J052013ALCS | J052013ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 104% | | |
| J052013ALCS | J052013ALCS | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 100% | | |
| J052013ALCS | J052013ALCS | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 104% | | |
| J052013ALCS | J052013ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 48 | | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 96% | | |
| J052013ALCS | J052013ALCS | ORG | 75-27-4 | Bromodichloromethane | 45 | | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 88% | | |
| J052013ALCS | J052013ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 55 | | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 110% | | |
| J052013ALCS | J052013ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 94% | | |
| J052013ALCS | J052013ALCS | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 78% | | |
| J052013ALCS | J052013ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 92% | | |
| J052013ALCS | J052013ALCS | ORG | 124-48-1 | Dibromochloromethane | 45 | | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 96% | | |
| J052013ALCS | J052013ALCS | ORG | 591-78-6 | 2-Hexanone | 50 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 100% | | |
| J052013ALCS | J052013ALCS | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | ORG | XYLMP | p&m-Xylene | 82 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 100 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 100-42-5 | Styrene | 40 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 80% | | |
| J052013ALCS | J052013ALCS | ORG | 75-25-2 | Bromoform | 44 | | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 88% | | |
| J052013ALCS | J052013ALCS | ORG | 98-82-8 | Isopropylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 80% | | |
| J052013ALCS | J052013ALCS | ORG | 103-65-1 | n-Propylbenzene | 42 | | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013ALCS | J052013ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 88% | | |
| J052013ALCS | J052013ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 45 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | ORG | 98-06-6 | tert-Butylbenzene | 40 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 80% | | |
| J052013ALCS | J052013ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 135-98-8 | sec-Butylbenzene | 41 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 43 | | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 86% | | |
| J052013ALCS | J052013ALCS | ORG | 99-87-6 | p-Isopropltoluene | 42 | | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 40 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 80% | | |
| J052013ALCS | J052013ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 41 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 82% | | |
| J052013ALCS | J052013ALCS | ORG | 104-51-8 | n-Butylbenzene | 42 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 46 | | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 92% | | |
| J052013ALCS | J052013ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 92% | | |
| J052013ALCS | J052013ALCS | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 84% | | |
| J052013ALCS | J052013ALCS | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 108% | | |
| J052013ALCS | J052013ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 102% | | |
| J052013ALCS | J052013ALCS | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 90% | | |
| J052013ALCS | J052013ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8314 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013ALCD | J052013ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 35 | | ug/L | 5 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 70% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 74-87-3 | Chloromethane | 52 | | ug/L | 5 | 0.43 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 104% | 10% | |
| J052013ALCD | J052013ALCD | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 74-83-9 | Bromomethane | 47 | | ug/L | 5 | 0.50 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 4% | |
| J052013ALCD | J052013ALCD | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 104% | 2% | |
| J052013ALCD | J052013ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 54 | | ug/L | 5 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 108% | 2% | |
| J052013ALCD | J052013ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 106% | 8% | |
| J052013ALCD | J052013ALCD | ORG | 75-09-2 | Methylene chloride | 53 | | ug/L | 5 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 106% | 4% | |
| J052013ALCD | J052013ALCD | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 114% | 0% | |
| J052013ALCD | J052013ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 100% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 13% | |
| J052013ALCD | J052013ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 104% | 6% | |
| J052013ALCD | J052013ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 108% | 8% | |
| J052013ALCD | J052013ALCD | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 110% | 6% | |
| J052013ALCD | J052013ALCD | ORG | 67-66-3 | Chloroform | 55 | | ug/L | 2 | 0.41 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 110% | 8% | |
| J052013ALCD | J052013ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 112% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 118% | 0% | |
| J052013ALCD | J052013ALCD | ORG | 56-23-5 | Carbon tetrachloride | 56 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 112% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 104% | 8% | |
| J052013ALCD | J052013ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 116% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 110% | 10% | |
| J052013ALCD | J052013ALCD | ORG | 74-95-3 | Dibromomethane | 56 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 112% | 7% | |
| J052013ALCD | J052013ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 106% | 10% | |
| J052013ALCD | J052013ALCD | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 100% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 50 | | ug/L | 1 | 0.21 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 100% | 10% | |
| J052013ALCD | J052013ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 102% | 8% | |
| J052013ALCD | J052013ALCD | ORG | 127-18-4 | Tetrachloroethene | 45 | | ug/L | 1 | 0.49 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 90% | 14% | |
| J052013ALCD | J052013ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 6% | |
| J052013ALCD | J052013ALCD | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 102% | 13% | |
| J052013ALCD | J052013ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 102% | 6% | |
| J052013ALCD | J052013ALCD | ORG | 591-78-6 | 2-Hexanone | 47 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 6% | |
| J052013ALCD | J052013ALCD | ORG | 100-41-4 | Ethylbenzene | 48 | | ug/L | 1 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 16% | |
| J052013ALCD | J052013ALCD | ORG | 108-90-7 | Chlorobenzene | 48 | | ug/L | 1 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 16% | |
| J052013ALCD | J052013ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.19 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 15% | |
| J052013ALCD | J052013ALCD | ORG | XYLMP | p&m-Xylene | 97 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 100 | 97% | 17% | |
| J052013ALCD | J052013ALCD | ORG | 95-47-6 | o-Xylene | 49 | | ug/L | 1 | 0.13 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 18% | |
| J052013ALCD | J052013ALCD | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 16% | |
| J052013ALCD | J052013ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 100% | 13% | |
| J052013ALCD | J052013ALCD | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 18% | |
| J052013ALCD | J052013ALCD | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 13% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052013ALCD | J052013ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 98-06-6 | tert-Butylbenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 20% | |
| J052013ALCD | J052013ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 16% | |
| J052013ALCD | J052013ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 14% | |
| J052013ALCD | J052013ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 96% | 13% | |
| J052013ALCD | J052013ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 90% | 12% | |
| J052013ALCD | J052013ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 92% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 94% | 11% | |
| J052013ALCD | J052013ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 9% | |
| J052013ALCD | J052013ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 104% | 12% | |
| J052013ALCD | J052013ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 106% | 14% | |
| J052013ALCD | J052013ALCD | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 98% | 15% | |
| J052013ALCD | J052013ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 102% | 19% | |
| J052013ALCD | J052013ALCD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 108% | 0% | |
| J052013ALCD | J052013ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 106% | 4% | |
| J052013ALCD | J052013ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 92% | 2% | |
| J052013ALCD | J052013ALCD | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/20/2013 | 5/20/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8315 | 50 | 102% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218MS | OB-137 | ORG | 75-71-8 | Dichlorodifluoromethane | 3700 | | ug/L | 500 | 29.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 74% | | |
| NAL13026-218MS | OB-137 | ORG | 74-87-3 | Chloromethane | 4800 | | ug/L | 500 | 43.07 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 96% | | |
| NAL13026-218MS | OB-137 | ORG | 75-01-4 | Vinyl chloride | 5400 | | ug/L | 200 | 31.86 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 74-83-9 | Bromomethane | 6100 | | ug/L | 500 | 50.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 122% | | |
| NAL13026-218MS | OB-137 | ORG | 75-00-3 | Chloroethane | 5900 | | ug/L | 500 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 118% | | |
| NAL13026-218MS | OB-137 | ORG | 75-69-4 | Trichlorofluoromethane | 6200 | | ug/L | 500 | 19.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 124% | | |
| NAL13026-218MS | OB-137 | ORG | 75-35-4 | 1,1-Dichloroethene | 6000 | | ug/L | 100 | 47.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 120% | | |
| NAL13026-218MS | OB-137 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 114% | | |
| NAL13026-218MS | OB-137 | ORG | 67-64-1 | Acetone | 41800 | | ug/L | 1000 | 155.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 116% | | 36000 |
| NAL13026-218MS | OB-137 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 110% | | |
| NAL13026-218MS | OB-137 | ORG | 1634-04-4 | MTBE | 5000 | | ug/L | 500 | 61.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 100% | | |
| NAL13026-218MS | OB-137 | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 102% | | |
| NAL13026-218MS | OB-137 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 74-97-5 | Bromochloromethane | 5600 | | ug/L | 1000 | 81.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 67-66-3 | Chloroform | 5600 | | ug/L | 200 | 41.37 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 114% | | |
| NAL13026-218MS | OB-137 | ORG | 78-93-3 | 2-Butanone | 22000 | | ug/L | 100 | 16.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 80% | | 18000 |
| NAL13026-218MS | OB-137 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 107-06-2 | 1,2-Dichloroethane | 5800 | | ug/L | 100 | 20.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 116% | | |
| NAL13026-218MS | OB-137 | ORG | 79-01-6 | Trichloroethene | 5600 | | ug/L | 100 | 36.33 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 74-95-3 | Dibromomethane | 5700 | | ug/L | 200 | 32.20 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 114% | | |
| NAL13026-218MS | OB-137 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |
| NAL13026-218MS | OB-137 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 104% | | |
| NAL13026-218MS | OB-137 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5400 | | ug/L | 100 | 25.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 108-88-3 | Toluene | 5200 | | ug/L | 500 | 74.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 104% | | |
| NAL13026-218MS | OB-137 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 100 | 20.96 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 92% | | 480 |
| NAL13026-218MS | OB-137 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 106% | | |
| NAL13026-218MS | OB-137 | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 92% | | |
| NAL13026-218MS | OB-137 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5300 | | ug/L | 100 | 34.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 106% | | |
| NAL13026-218MS | OB-137 | ORG | 124-48-1 | Dibromochloromethane | 5000 | | ug/L | 500 | 68.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 100% | | |
| NAL13026-218MS | OB-137 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 104% | | |
| NAL13026-218MS | OB-137 | ORG | 591-78-6 | 2-Hexanone | 4000 | | ug/L | 200 | 26.49 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 75% | | 240 |
| NAL13026-218MS | OB-137 | ORG | 100-41-4 | Ethylbenzene | 5900 | | ug/L | 100 | 25.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 118% | | |
| NAL13026-218MS | OB-137 | ORG | 108-90-7 | Chlorobenzene | 5800 | | ug/L | 100 | 27.52 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 116% | | |
| NAL13026-218MS | OB-137 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5800 | | ug/L | 200 | 19.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 116% | | |
| NAL13026-218MS | OB-137 | ORG | XYLMP | p&m-Xylene | 11800 | | ug/L | 200 | 26.14 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 10000 | 118% | | |
| NAL13026-218MS | OB-137 | ORG | 95-47-6 | o-Xylene | 5800 | | ug/L | 100 | 12.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 116% | | |
| NAL13026-218MS | OB-137 | ORG | 100-42-5 | Styrene | 5500 | | ug/L | 100 | 20.23 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 110% | | |
| NAL13026-218MS | OB-137 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 100% | | |
| NAL13026-218MS | OB-137 | ORG | 98-82-8 | Isopropylbenzene | 5700 | | ug/L | 200 | 20.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 114% | | |
| NAL13026-218MS | OB-137 | ORG | 103-65-1 | n-Propylbenzene | 5600 | | ug/L | 200 | 27.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 112% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218MS | OB-137 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4800 | | ug/L | 200 | 29.16 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 96% | | |
| NAL13026-218MS | OB-137 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 102% | | |
| NAL13026-218MS | OB-137 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 98-06-6 | tert-Butylbenzene | 5400 | | ug/L | 200 | 32.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 108% | | |
| NAL13026-218MS | OB-137 | ORG | 135-98-8 | sec-Butylbenzene | 5300 | | ug/L | 200 | 32.34 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 106% | | |
| NAL13026-218MS | OB-137 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 100% | | |
| NAL13026-218MS | OB-137 | ORG | 99-87-6 | p-Isopropltoluene | 5200 | | ug/L | 200 | 25.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 103% | | 53 |
| NAL13026-218MS | OB-137 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4500 | | ug/L | 200 | 33.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 90% | | |
| NAL13026-218MS | OB-137 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4800 | | ug/L | 200 | 26.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 96% | | |
| NAL13026-218MS | OB-137 | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 102% | | |
| NAL13026-218MS | OB-137 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 100% | | |
| NAL13026-218MS | OB-137 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 104% | | |
| NAL13026-218MS | OB-137 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5700 | | ug/L | 500 | 27.63 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 114% | | |
| NAL13026-218MS | OB-137 | ORG | 91-20-3 | Naphthalene | 5400 | | ug/L | 500 | 56.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 104% | | 190 |
| NAL13026-218MS | OB-137 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5300 | | ug/L | 500 | 23.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 5000 | 106% | | |
| NAL13026-218MS | OB-137 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 50 | 104% | | |
| NAL13026-218MS | OB-137 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 50 | 98% | | |
| NAL13026-218MS | OB-137 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 50 | 96% | | |
| NAL13026-218MS | OB-137 | STD | 460-00-4 | Bromofluorobenzene | 54 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8309 | 50 | 108% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218MSD | OB-137 | ORG | 75-71-8 | Dichlorodifluoromethane | 3600 | | ug/L | 500 | 29.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 72% | 3% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 74-87-3 | Chloromethane | 4800 | | ug/L | 500 | 43.07 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 96% | 0% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-01-4 | Vinyl chloride | 5200 | | ug/L | 200 | 31.86 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 104% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 74-83-9 | Bromomethane | 5600 | | ug/L | 500 | 50.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 112% | 9% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-00-3 | Chloroethane | 5500 | | ug/L | 500 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 110% | 7% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-69-4 | Trichlorofluoromethane | 5800 | | ug/L | 500 | 19.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 116% | 7% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-35-4 | 1,1-Dichloroethene | 5800 | | ug/L | 100 | 47.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 116% | 3% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 114% | 0% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 67-64-1 | Acetone | 43500 | | ug/L | 1000 | 155.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 150% | 4% | 36000 |
| NAL13026-218MSD | OB-137 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5200 | | ug/L | 100 | 55.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 104% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 104% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 94% | 8% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5300 | | ug/L | 100 | 32.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 74-97-5 | Bromochloromethane | 5300 | | ug/L | 1000 | 81.18 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 67-66-3 | Chloroform | 5300 | | ug/L | 200 | 41.37 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5400 | | ug/L | 100 | 15.73 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 5% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 78-93-3 | 2-Butanone | 21400 | | ug/L | 100 | 16.65 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 68% | 3% | 18000 |
| NAL13026-218MSD | OB-137 | ORG | 56-23-5 | Carbon tetrachloride | 5500 | | ug/L | 100 | 27.64 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 110% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 104% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 107-06-2 | 1,2-Dichloroethane | 5400 | | ug/L | 100 | 20.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 7% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 79-01-6 | Trichloroethene | 5400 | | ug/L | 100 | 36.33 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 74-95-3 | Dibromomethane | 5400 | | ug/L | 200 | 32.20 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 5% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 78-87-5 | 1,2-Dichloropropane | 5300 | | ug/L | 100 | 18.17 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 100% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5100 | | ug/L | 100 | 25.01 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 108-88-3 | Toluene | 5100 | | ug/L | 500 | 74.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 100 | 20.96 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 92% | 0% | 480 |
| NAL13026-218MSD | OB-137 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 92% | 0% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4700 | | ug/L | 100 | 34.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 94% | 12% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 96% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 591-78-6 | 2-Hexanone | 4100 | | ug/L | 200 | 26.49 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 77% | 2% | 240 |
| NAL13026-218MSD | OB-137 | ORG | 100-41-4 | Ethylbenzene | 5900 | | ug/L | 100 | 25.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 118% | 0% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 108-90-7 | Chlorobenzene | 5700 | | ug/L | 100 | 27.52 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 114% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5700 | | ug/L | 200 | 19.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 114% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | XYLMP | p&m-Xylene | 11500 | | ug/L | 200 | 26.14 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 10000 | 115% | 3% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 95-47-6 | o-Xylene | 5600 | | ug/L | 100 | 12.90 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 112% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 100-42-5 | Styrene | 5300 | | ug/L | 100 | 20.23 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 100% | 0% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 98-82-8 | Isopropylbenzene | 5400 | | ug/L | 200 | 20.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 5% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 103-65-1 | n-Propylbenzene | 5400 | | ug/L | 200 | 27.00 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-218MSD | OB-137 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4900 | | ug/L | 200 | 29.16 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 98% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 104% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5100 | | ug/L | 200 | 20.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 135-98-8 | sec-Butylbenzene | 5100 | | ug/L | 200 | 32.34 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 94% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 99% | 4% | 53 |
| NAL13026-218MSD | OB-137 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4600 | | ug/L | 200 | 33.03 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 92% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 92% | 4% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 96% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5300 | | ug/L | 500 | 159.11 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 106% | 6% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 102% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5600 | | ug/L | 500 | 27.63 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 112% | 2% | 0 |
| NAL13026-218MSD | OB-137 | ORG | 91-20-3 | Naphthalene | 5600 | | ug/L | 500 | 56.04 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 4% | 190 |
| NAL13026-218MSD | OB-137 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5400 | | ug/L | 500 | 23.28 | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 5000 | 108% | 2% | 0 |
| NAL13026-218MSD | OB-137 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 50 | 104% | 0% | 0 |
| NAL13026-218MSD | OB-137 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 50 | 100% | 2% | 0 |
| NAL13026-218MSD | OB-137 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 50 | 100% | 4% | 0 |
| NAL13026-218MSD | OB-137 | STD | 460-00-4 | Bromofluorobenzene | 54 | | ng | | | 5/20/2013 | 5/20/2013 | 5/20/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8310 | 50 | 108% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221 | OPS BATCH 140 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 67-64-1 | Acetone | 55000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8324 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 5000 | 405.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8324 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 530 | | ug/L | 500 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 591-78-6 | 2-Hexanone | 300 | J | ug/L | 500 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221 | OPS BATCH 140 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 99-87-6 | p-Isopropltoluene | 77 | J | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 91-20-3 | Naphthalene | 250 | J | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | | | | |
| NAL13026-221 | OPS BATCH 140 | STD | 1868-53-7 | Dibromofluoromethane | 60 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | 50 | 120% | | |
| NAL13026-221 | OPS BATCH 140 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | 50 | 108% | | |
| NAL13026-221 | OPS BATCH 140 | STD | 2037-26-5 | Toluene d8 | 41 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | 50 | 82% | | |
| NAL13026-221 | OPS BATCH 140 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8323 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-222 | OPS BATCH 143 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 67-64-1 | Acetone | 52000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8329 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 78-93-3 | 2-Butanone | 26000 | D | ug/L | 5000 | 83.26 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8329 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 71-43-2 | Benzene | 59 | J | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 810 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 591-78-6 | 2-Hexanone | 400 | J | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-222 | OPS BATCH 143 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 52 | J | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 99-87-6 | p-Isopropltoluene | 170 | J | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 91-20-3 | Naphthalene | 290 | J | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | | | | |
| NAL13026-222 | OPS BATCH 143 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | 50 | 102% | | |
| NAL13026-222 | OPS BATCH 143 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | 50 | 106% | | |
| NAL13026-222 | OPS BATCH 143 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | 50 | 92% | | |
| NAL13026-222 | OPS BATCH 143 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8328 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-223 | BATCH 142-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 67-64-1 | Acetone | 38000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8331 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 78-93-3 | 2-Butanone | 29000 | | ug/L | 1000 | 16.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 520 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 591-78-6 | 2-Hexanone | 260 | J | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-223 | BATCH 142-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 99-87-6 | p-Isopropltoluene | 93 | J | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 91-20-3 | Naphthalene | 240 | J | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | | | | |
| NAL13026-223 | BATCH 142-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | 50 | 102% | | |
| NAL13026-223 | BATCH 142-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | 50 | 102% | | |
| NAL13026-223 | BATCH 142-MSD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | 50 | 90% | | |
| NAL13026-223 | BATCH 142-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8330 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 67-64-1 | Acetone | 68000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8337 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 78-93-3 | 2-Butanone | 34000 | D | ug/L | 5000 | 83.26 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8337 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1000 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 591-78-6 | 2-Hexanone | 670 | | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | UX- | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 99-87-6 | p-Isopropltoluene | 140 | J | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 87-68-3 | Hexachlorobutadiene | | UX- | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 91-20-3 | Naphthalene | 300 | J | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | | | | |
| NAL13026-224 | OB-141-ST-TANK 1 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | 50 | 104% | | |
| NAL13026-224 | OB-141-ST-TANK 1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | 50 | 108% | | |
| NAL13026-224 | OB-141-ST-TANK 1 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | 50 | 90% | | |
| NAL13026-224 | OB-141-ST-TANK 1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8336 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 67-64-1 | Acetone | 85000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8339 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 78-93-3 | 2-Butanone | 45000 | D | ug/L | 5000 | 83.26 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8339 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1600 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 591-78-6 | 2-Hexanone | 870 | | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | UX- | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 99-87-6 | p-Isopropltoluene | 620 | | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 200 | J | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 87-68-3 | Hexachlorobutadiene | | UX- | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 91-20-3 | Naphthalene | 490 | J | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | | | | |
| NAL13026-225 | OB-141-ST-TANK 2 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | 50 | 104% | | |
| NAL13026-225 | OB-141-ST-TANK 2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | 50 | 102% | | |
| NAL13026-225 | OB-141-ST-TANK 2 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | 50 | 90% | | |
| NAL13026-225 | OB-141-ST-TANK 2 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8338 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 67-64-1 | Acetone | 100000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8341 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 78-93-3 | 2-Butanone | 60000 | D | ug/L | 5000 | 83.26 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8341 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 71-43-2 | Benzene | 32 | J | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2500 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 591-78-6 | 2-Hexanone | 1400 | | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 100-41-4 | Ethylbenzene | 77 | J | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | XYLMP | p&m-Xylene | 200 | | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 95-47-6 | o-Xylene | 100 | | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 100-42-5 | Styrene | 78 | J | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 98-82-8 | Isopropylbenzene | 73 | J | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 103-65-1 | n-Propylbenzene | 76 | J | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 130 | J | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 420 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | UX- | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 99-87-6 | p-Isopropltoluene | 1700 | | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 500 | | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 25 | J | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 104-51-8 | n-Butylbenzene | 150 | J | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 87-68-3 | Hexachlorobutadiene | | UX- | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 91-20-3 | Naphthalene | 810 | | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | | | | |
| NAL13026-226 | OB-141-ST-TANK 3 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | 50 | 104% | | |
| NAL13026-226 | OB-141-ST-TANK 3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | 50 | 104% | | |
| NAL13026-226 | OB-141-ST-TANK 3 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | 50 | 90% | | |
| NAL13026-226 | OB-141-ST-TANK 3 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8340 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 67-64-1 | Acetone | 93000 | D | ug/L | 5000 | 778.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8343 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 78-93-3 | 2-Butanone | 54000 | D | ug/L | 5000 | 83.26 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8343 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 71-43-2 | Benzene | 280 | | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 108-88-3 | Toluene | 290 | | ug/L | 100 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2400 | | ug/L | 500 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 591-78-6 | 2-Hexanone | 1200 | | ug/L | 500 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 100-41-4 | Ethylbenzene | 450 | | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | XYLMP | p&m-Xylene | 1100 | | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 95-47-6 | o-Xylene | 550 | | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 100-42-5 | Styrene | 120 | | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 98-82-8 | Isopropylbenzene | 300 | | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 103-65-1 | n-Propylbenzene | 230 | | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 490 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 2000 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | UX- | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 99-87-6 | p-Isopropltoluene | 7900 | | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 2100 | | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 104-51-8 | n-Butylbenzene | 330 | J | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 87-68-3 | Hexachlorobutadiene | | UX- | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 91-20-3 | Naphthalene | 2500 | | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | | | | |
| NAL13026-227 | OB-141-ST-TANK 4 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | 50 | 104% | | |
| NAL13026-227 | OB-141-ST-TANK 4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | 50 | 104% | | |
| NAL13026-227 | OB-141-ST-TANK 4 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | 50 | 90% | | |
| NAL13026-227 | OB-141-ST-TANK 4 | STD | 460-00-4 | Bromofluorobenzene | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8342 | 50 | 104% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113CCVA | J052113CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 29 | | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 58% | | |
| J052113CCVA | J052113CCVA | ORG | 74-87-3 | Chloromethane | 48 | | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 75-01-4 | Vinyl chloride | 47 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 100% | | |
| J052113CCVA | J052113CCVA | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 58 | | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 116% | | |
| J052113CCVA | J052113CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 56 | | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 112% | | |
| J052113CCVA | J052113CCVA | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 114% | | |
| J052113CCVA | J052113CCVA | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 114% | | |
| J052113CCVA | J052113CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 104% | | |
| J052113CCVA | J052113CCVA | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 102% | | |
| J052113CCVA | J052113CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 100% | | |
| J052113CCVA | J052113CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 112% | | |
| J052113CCVA | J052113CCVA | ORG | 67-66-3 | Chloroform | 55 | | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 55 | | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 108% | | |
| J052113CCVA | J052113CCVA | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 71-43-2 | Benzene | 53 | | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 106% | | |
| J052113CCVA | J052113CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 55 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 108% | | |
| J052113CCVA | J052113CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 100% | | |
| J052113CCVA | J052113CCVA | ORG | 108-88-3 | Toluene | 48 | | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 57 | | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 114% | | |
| J052113CCVA | J052113CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 100% | | |
| J052113CCVA | J052113CCVA | ORG | 127-18-4 | Tetrachloroethene | 46 | | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 98% | | |
| J052113CCVA | J052113CCVA | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 51 | | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 102% | | |
| J052113CCVA | J052113CCVA | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 104% | | |
| J052113CCVA | J052113CCVA | ORG | 100-41-4 | Ethylbenzene | 48 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 98% | | |
| J052113CCVA | J052113CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | XYLMP | p&m-Xylene | 97 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 100 | 97% | | |
| J052113CCVA | J052113CCVA | ORG | 95-47-6 | o-Xylene | 48 | | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 75-25-2 | Bromoform | 45 | | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 90% | | |
| J052113CCVA | J052113CCVA | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113CCVA | J052113CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 98% | | |
| J052113CCVA | J052113CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 90% | | |
| J052113CCVA | J052113CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 106% | | |
| J052113CCVA | J052113CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 44 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 88% | | |
| J052113CCVA | J052113CCVA | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 90% | | |
| J052113CCVA | J052113CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 92% | | |
| J052113CCVA | J052113CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 42 | | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 84% | | |
| J052113CCVA | J052113CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 94% | | |
| J052113CCVA | J052113CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 90% | | |
| J052113CCVA | J052113CCVA | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 110% | | |
| J052113CCVA | J052113CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 96% | | |
| J052113CCVA | J052113CCVA | STD | 2037-26-5 | Toluene d8 | 41 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 82% | | |
| J052113CCVA | J052113CCVA | STD | 460-00-4 | Bromofluorobenzene | 52 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8321 | 50 | 104% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113MBKA | J052113MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113MBKA | J052113MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | | | | |
| J052113MBKA | J052113MBKA | STD | 1868-53-7 | Dibromofluoromethane | 61 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | 50 | 122% | | |
| J052113MBKA | J052113MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 55 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | 50 | 110% | | |
| J052113MBKA | J052113MBKA | STD | 2037-26-5 | Toluene d8 | 40 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | 50 | 80% | | |
| J052113MBKA | J052113MBKA | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8322 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113CCVB | J052113CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 23 | | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 46% | | |
| J052113CCVB | J052113CCVB | ORG | 74-87-3 | Chloromethane | 42 | | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 84% | | |
| J052113CCVB | J052113CCVB | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 82% | | |
| J052113CCVB | J052113CCVB | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 75-00-3 | Chloroethane | 45 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 46 | | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 96% | | |
| J052113CCVB | J052113CCVB | ORG | 67-64-1 | Acetone | 50 | | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 96% | | |
| J052113CCVB | J052113CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 102% | | |
| J052113CCVB | J052113CCVB | ORG | 67-66-3 | Chloroform | 50 | | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 78-93-3 | 2-Butanone | 49 | | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 94% | | |
| J052113CCVB | J052113CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 49 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 74-95-3 | Dibromomethane | 50 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 100% | | |
| J052113CCVB | J052113CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 112% | | |
| J052113CCVB | J052113CCVB | ORG | 75-27-4 | Bromodichloromethane | 45 | | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 88% | | |
| J052113CCVB | J052113CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 51 | | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 102% | | |
| J052113CCVB | J052113CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 127-18-4 | Tetrachloroethene | 40 | | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 80% | | |
| J052113CCVB | J052113CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 44 | | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 88% | | |
| J052113CCVB | J052113CCVB | ORG | 124-48-1 | Dibromochloromethane | 46 | | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 45 | | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 591-78-6 | 2-Hexanone | 49 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 98% | | |
| J052113CCVB | J052113CCVB | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 94% | | |
| J052113CCVB | J052113CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | XYLMP | p&m-Xylene | 92 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 100 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 75-25-2 | Bromoform | 45 | | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113CCVB | J052113CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 86% | | |
| J052113CCVB | J052113CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 98-06-6 | tert-Butylbenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 86% | | |
| J052113CCVB | J052113CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 92% | | |
| J052113CCVB | J052113CCVB | ORG | 135-98-8 | sec-Butylbenzene | 43 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 86% | | |
| J052113CCVB | J052113CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 34 | | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 68% | | |
| J052113CCVB | J052113CCVB | ORG | 99-87-6 | p-Isopropltoluene | 44 | | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 88% | | |
| J052113CCVB | J052113CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 86% | | |
| J052113CCVB | J052113CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 45 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 104-51-8 | n-Butylbenzene | 43 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 86% | | |
| J052113CCVB | J052113CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 41 | | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 82% | | |
| J052113CCVB | J052113CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 39 | | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 78% | | |
| J052113CCVB | J052113CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 94% | | |
| J052113CCVB | J052113CCVB | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 114% | | |
| J052113CCVB | J052113CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 106% | | |
| J052113CCVB | J052113CCVB | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 90% | | |
| J052113CCVB | J052113CCVB | STD | 460-00-4 | Bromofluorobenzene | 53 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8334 | 50 | 106% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113MBKB | J052113MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113MBKB | J052113MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | | | | |
| J052113MBKB | J052113MBKB | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | 50 | 106% | | |
| J052113MBKB | J052113MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | 50 | 108% | | |
| J052113MBKB | J052113MBKB | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | 50 | 92% | | |
| J052113MBKB | J052113MBKB | STD | 460-00-4 | Bromofluorobenzene | 52 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8335 | 50 | 104% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113ALCS | J052113ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 24 | | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 48% | | |
| J052113ALCS | J052113ALCS | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 82% | | |
| J052113ALCS | J052113ALCS | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 84% | | |
| J052113ALCS | J052113ALCS | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 100% | | |
| J052113ALCS | J052113ALCS | ORG | 75-00-3 | Chloroethane | 43 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 86% | | |
| J052113ALCS | J052113ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 96% | | |
| J052113ALCS | J052113ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 108% | | |
| J052113ALCS | J052113ALCS | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 67-64-1 | Acetone | 61 | | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 122% | | |
| J052113ALCS | J052113ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 104% | | |
| J052113ALCS | J052113ALCS | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 102% | | |
| J052113ALCS | J052113ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 74-97-5 | Bromochloromethane | 58 | | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 67-66-3 | Chloroform | 57 | | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 58 | | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 56-23-5 | Carbon tetrachloride | 59 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 118% | | |
| J052113ALCS | J052113ALCS | ORG | 71-43-2 | Benzene | 55 | | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 59 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 118% | | |
| J052113ALCS | J052113ALCS | ORG | 79-01-6 | Trichloroethene | 57 | | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 74-95-3 | Dibromomethane | 58 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 75-27-4 | Bromodichloromethane | 57 | | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 57 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 108-88-3 | Toluene | 56 | | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 60 | | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 120% | | |
| J052113ALCS | J052113ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 57 | | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 127-18-4 | Tetrachloroethene | 49 | | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 98% | | |
| J052113ALCS | J052113ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 56 | | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 124-48-1 | Dibromochloromethane | 57 | | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 58 | | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 100-41-4 | Ethylbenzene | 57 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | 108-90-7 | Chlorobenzene | 58 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 114% | | |
| J052113ALCS | J052113ALCS | ORG | XYLMP | p&m-Xylene | 115 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 100 | 115% | | |
| J052113ALCS | J052113ALCS | ORG | 95-47-6 | o-Xylene | 56 | | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 100-42-5 | Styrene | 55 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 108% | | |
| J052113ALCS | J052113ALCS | ORG | 98-82-8 | Isopropylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 103-65-1 | n-Propylbenzene | 56 | | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113ALCS | J052113ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 106% | | |
| J052113ALCS | J052113ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 56 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 112% | | |
| J052113ALCS | J052113ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 98-06-6 | tert-Butylbenzene | 55 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 135-98-8 | sec-Butylbenzene | 55 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 55 | | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 99-87-6 | p-Isopropltoluene | 55 | | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 110% | | |
| J052113ALCS | J052113ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 102% | | |
| J052113ALCS | J052113ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 106% | | |
| J052113ALCS | J052113ALCS | ORG | 104-51-8 | n-Butylbenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 108% | | |
| J052113ALCS | J052113ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 52 | | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 104% | | |
| J052113ALCS | J052113ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 108% | | |
| J052113ALCS | J052113ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 58 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 116% | | |
| J052113ALCS | J052113ALCS | ORG | 91-20-3 | Naphthalene | 54 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 108% | | |
| J052113ALCS | J052113ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 53 | | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 106% | | |
| J052113ALCS | J052113ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 104% | | |
| J052113ALCS | J052113ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 96% | | |
| J052113ALCS | J052113ALCS | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 90% | | |
| J052113ALCS | J052113ALCS | STD | 460-00-4 | Bromofluorobenzene | 52 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8332 | 50 | 104% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113ALCD | J052113ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 26 | | ug/L | 5 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 52% | 8% | |
| J052113ALCD | J052113ALCD | ORG | 74-87-3 | Chloromethane | 43 | | ug/L | 5 | 0.43 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 86% | 5% | |
| J052113ALCD | J052113ALCD | ORG | 75-01-4 | Vinyl chloride | 46 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 92% | 9% | |
| J052113ALCD | J052113ALCD | ORG | 74-83-9 | Bromomethane | 51 | | ug/L | 5 | 0.50 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 102% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 96% | 11% | |
| J052113ALCD | J052113ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 104% | 8% | |
| J052113ALCD | J052113ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 53 | | ug/L | 1 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 106% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 67-64-1 | Acetone | 56 | | ug/L | 10 | 1.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 9% | |
| J052113ALCD | J052113ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 104% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 104% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 74-97-5 | Bromochloromethane | 60 | | ug/L | 10 | 0.81 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 120% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 67-66-3 | Chloroform | 59 | | ug/L | 2 | 0.41 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 59 | | ug/L | 1 | 0.16 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 110% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 56-23-5 | Carbon tetrachloride | 59 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 71-43-2 | Benzene | 57 | | ug/L | 1 | 0.14 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 61 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 122% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 79-01-6 | Trichloroethene | 59 | | ug/L | 1 | 0.36 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 74-95-3 | Dibromomethane | 59 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 57 | | ug/L | 1 | 0.18 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 75-27-4 | Bromodichloromethane | 59 | | ug/L | 2 | 0.12 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 58 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 116% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 108-88-3 | Toluene | 57 | | ug/L | 5 | 0.74 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 116% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 59 | | ug/L | 1 | 0.31 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 127-18-4 | Tetrachloroethene | 54 | | ug/L | 1 | 0.49 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 108% | 10% | |
| J052113ALCD | J052113ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 56 | | ug/L | 1 | 0.34 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 124-48-1 | Dibromochloromethane | 60 | | ug/L | 5 | 0.69 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 120% | 5% | |
| J052113ALCD | J052113ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 60 | | ug/L | 2 | 0.30 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 120% | 3% | |
| J052113ALCD | J052113ALCD | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 110% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 100-41-4 | Ethylbenzene | 57 | | ug/L | 1 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 108-90-7 | Chlorobenzene | 57 | | ug/L | 1 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.19 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 0% | |
| J052113ALCD | J052113ALCD | ORG | XYLMP | p&m-Xylene | 114 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 100 | 114% | 1% | |
| J052113ALCD | J052113ALCD | ORG | 95-47-6 | o-Xylene | 54 | | ug/L | 1 | 0.13 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 108% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 100-42-5 | Styrene | 55 | | ug/L | 1 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 110% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 75-25-2 | Bromoform | 56 | | ug/L | 2 | 0.47 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 98-82-8 | Isopropylbenzene | 57 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 103-65-1 | n-Propylbenzene | 57 | | ug/L | 2 | 0.27 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052113ALCD | J052113ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 106% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 56 | | ug/L | 2 | 0.29 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 56 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 112% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 98-06-6 | tert-Butylbenzene | 54 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 108% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 55 | | ug/L | 2 | 0.20 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 110% | 0% | |
| J052113ALCD | J052113ALCD | ORG | 135-98-8 | sec-Butylbenzene | 57 | | ug/L | 2 | 0.32 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 42 | | ug/L | 2 | 0.22 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 84% | 27% | |
| J052113ALCD | J052113ALCD | ORG | 99-87-6 | p-Isopropltoluene | 57 | | ug/L | 2 | 0.25 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 104% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 54 | | ug/L | 2 | 0.26 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 108% | 2% | |
| J052113ALCD | J052113ALCD | ORG | 104-51-8 | n-Butylbenzene | 57 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 5% | |
| J052113ALCD | J052113ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | | ug/L | 5 | 1.59 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 108% | 4% | |
| J052113ALCD | J052113ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 62 | | ug/L | 5 | 0.65 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 124% | 14% | |
| J052113ALCD | J052113ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 63 | | ug/L | 5 | 0.28 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 126% | 8% | |
| J052113ALCD | J052113ALCD | ORG | 91-20-3 | Naphthalene | 57 | | ug/L | 5 | 0.56 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 114% | 5% | |
| J052113ALCD | J052113ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 59 | | ug/L | 5 | 0.23 | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 118% | 11% | |
| J052113ALCD | J052113ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 106% | 2% | |
| J052113ALCD | J052113ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 98% | 2% | |
| J052113ALCD | J052113ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 92% | 2% | |
| J052113ALCD | J052113ALCD | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/21/2013 | 5/21/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8333 | 50 | 102% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-71-8 | Dichlorodifluoromethane | 3000 | | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 60% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 74-87-3 | Chloromethane | 5200 | | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 104% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-01-4 | Vinyl chloride | 5000 | | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 100% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 74-83-9 | Bromomethane | 5300 | | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 106% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-00-3 | Chloroethane | 4900 | | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 98% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-69-4 | Trichlorofluoromethane | 5900 | | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 118% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-35-4 | 1,1-Dichloroethene | 5500 | | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 110% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 114% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 67-64-1 | Acetone | 51000 | | ug/L | 1000 | 155.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | -80% | | 55000 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4900 | | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 98% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 1634-04-4 | MTBE | 5100 | | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 102% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-34-3 | 1,1-Dichloroethane | 5400 | | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 108% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 112% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 74-97-5 | Bromochloromethane | 5600 | | ug/L | 1000 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 112% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 67-66-3 | Chloroform | 5600 | | ug/L | 200 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 112% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5500 | | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 110% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 78-93-3 | 2-Butanone | 30000 | | ug/L | 100 | 16.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 80% | | 26000 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 56-23-5 | Carbon tetrachloride | 5500 | | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 110% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 108% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 107-06-2 | 1,2-Dichloroethane | 5700 | | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 114% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 79-01-6 | Trichloroethene | 5600 | | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 112% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 74-95-3 | Dibromomethane | 5700 | | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 114% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 112% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-27-4 | Bromodichloromethane | 4500 | | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 94% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 108-88-3 | Toluene | 4500 | | ug/L | 500 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4600 | | ug/L | 100 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 81% | | 530 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 94% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 127-18-4 | Tetrachloroethene | 4000 | | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 80% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4500 | | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 124-48-1 | Dibromochloromethane | 4600 | | ug/L | 500 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 92% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 106-93-4 | 1,2-Dibromoethane | 4800 | | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 96% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 591-78-6 | 2-Hexanone | 4200 | | ug/L | 200 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 78% | | 300 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 94% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 108-90-7 | Chlorobenzene | 4700 | | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 94% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4600 | | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 92% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | XYLMP | p&m-Xylene | 9300 | | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 10000 | 93% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 92% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 100-42-5 | Styrene | 4400 | | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 88% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 75-25-2 | Bromoform | 4400 | | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 88% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 98-82-8 | Isopropylbenzene | 4500 | | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 103-65-1 | n-Propylbenzene | 4500 | | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221MS | OPS BATCH 140 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4300 | | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 86% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4500 | | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 98-06-6 | tert-Butylbenzene | 4500 | | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 88% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 135-98-8 | sec-Butylbenzene | 4400 | | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 88% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4400 | | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 88% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 99-87-6 | p-Isopropltoluene | 4400 | | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 86% | | 77 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5000 | | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 100% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4100 | | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 82% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 104-51-8 | n-Butylbenzene | 4200 | | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 84% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4200 | | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 84% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 87-68-3 | Hexachlorobutadiene | 3900 | | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 78% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4500 | | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 90% | | |
| NAL13026-221MS | OPS BATCH 140 | ORG | 91-20-3 | Naphthalene | 4600 | | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 87% | | 250 |
| NAL13026-221MS | OPS BATCH 140 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4300 | | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 5000 | 86% | | |
| NAL13026-221MS | OPS BATCH 140 | STD | 1868-53-7 | Dibromofluoromethane | 61 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 50 | 122% | | |
| NAL13026-221MS | OPS BATCH 140 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 50 | 98% | | |
| NAL13026-221MS | OPS BATCH 140 | STD | 2037-26-5 | Toluene d8 | 41 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 50 | 82% | | |
| NAL13026-221MS | OPS BATCH 140 | STD | 460-00-4 | Bromofluorobenzene | 53 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8325 | 50 | 106% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-71-8 | Dichlorodifluoromethane | 3300 | | ug/L | 500 | 29.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 66% | 10% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 74-87-3 | Chloromethane | 4600 | | ug/L | 500 | 43.07 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 92% | 12% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-01-4 | Vinyl chloride | 5100 | | ug/L | 200 | 31.86 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 102% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 74-83-9 | Bromomethane | 5600 | | ug/L | 500 | 50.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 112% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 106% | 8% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-69-4 | Trichlorofluoromethane | 5600 | | ug/L | 500 | 19.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 112% | 5% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-35-4 | 1,1-Dichloroethene | 5400 | | ug/L | 100 | 47.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 108% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-09-2 | Methylene chloride | 5600 | | ug/L | 500 | 26.46 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 112% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 67-64-1 | Acetone | 54000 | | ug/L | 1000 | 155.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | -20% | 6% | 55000 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5100 | | ug/L | 100 | 55.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 102% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 1634-04-4 | MTBE | 5000 | | ug/L | 500 | 61.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 100% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 110% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 114% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 74-97-5 | Bromochloromethane | 5900 | | ug/L | 1000 | 81.18 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 118% | 5% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 67-66-3 | Chloroform | 5800 | | ug/L | 200 | 41.37 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 116% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 114% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 78-93-3 | 2-Butanone | 30000 | | ug/L | 100 | 16.65 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 80% | 0% | 26000 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 114% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 71-43-2 | Benzene | 5500 | | ug/L | 100 | 13.53 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 110% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 107-06-2 | 1,2-Dichloroethane | 6000 | | ug/L | 100 | 20.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 120% | 5% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 79-01-6 | Trichloroethene | 5800 | | ug/L | 100 | 36.33 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 116% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 74-95-3 | Dibromomethane | 5900 | | ug/L | 200 | 32.20 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 118% | 3% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 78-87-5 | 1,2-Dichloropropane | 5700 | | ug/L | 100 | 18.17 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 114% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-27-4 | Bromodichloromethane | 4900 | | ug/L | 200 | 11.58 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 98% | 9% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 98% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 108-88-3 | Toluene | 4800 | | ug/L | 500 | 74.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4800 | | ug/L | 100 | 20.96 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 85% | 4% | 530 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5000 | | ug/L | 100 | 31.15 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 100% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 127-18-4 | Tetrachloroethene | 4200 | | ug/L | 100 | 48.56 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 84% | 5% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5000 | | ug/L | 100 | 34.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 100% | 11% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 124-48-1 | Dibromochloromethane | 5000 | | ug/L | 500 | 68.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 100% | 8% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 102% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 591-78-6 | 2-Hexanone | 4200 | | ug/L | 200 | 26.49 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 78% | 0% | 300 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 100-41-4 | Ethylbenzene | 4700 | | ug/L | 100 | 25.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 0% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 108-90-7 | Chlorobenzene | 4800 | | ug/L | 100 | 27.52 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | XYLMP | p&m-Xylene | 9500 | | ug/L | 200 | 26.14 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 10000 | 95% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 92% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 75-25-2 | Bromoform | 4700 | | ug/L | 200 | 46.83 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 7% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 103-65-1 | n-Propylbenzene | 4700 | | ug/L | 200 | 27.00 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-221MSD | OPS BATCH 140 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4700 | | ug/L | 200 | 29.16 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 9% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4800 | | ug/L | 200 | 29.47 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 90% | 0% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 98-06-6 | tert-Butylbenzene | 4400 | | ug/L | 200 | 32.61 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 88% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 90% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 92% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4500 | | ug/L | 200 | 22.21 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 90% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 92% | 7% | 77 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 106% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4400 | | ug/L | 200 | 26.38 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 88% | 7% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 104-51-8 | n-Butylbenzene | 4500 | | ug/L | 500 | 27.81 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 90% | 7% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4800 | | ug/L | 500 | 159.11 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 96% | 13% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 87-68-3 | Hexachlorobutadiene | 4500 | | ug/L | 500 | 65.42 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 90% | 14% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4700 | | ug/L | 500 | 27.63 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 94% | 4% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 91% | 4% | 250 |
| NAL13026-221MSD | OPS BATCH 140 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4400 | | ug/L | 500 | 23.28 | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 5000 | 88% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | STD | 1868-53-7 | Dibromofluoromethane | 59 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 50 | 118% | 3% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 50 | 104% | 6% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 50 | 84% | 2% | 0 |
| NAL13026-221MSD | OPS BATCH 140 | STD | 460-00-4 | Bromofluorobenzene | 53 | | ng | | | 5/21/2013 | 5/21/2013 | 5/21/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8326 | 50 | 106% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228 | OPS BATCH 144 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 67-64-1 | Acetone | 41000 | D | ug/L | 5000 | 778.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8348 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 78-93-3 | 2-Butanone | 18000 | | ug/L | 1000 | 81.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 71-43-2 | Benzene | 14 | J | ug/L | 100 | 13.53 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 420 | J | ug/L | 500 | 74.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 591-78-6 | 2-Hexanone | 220 | J | ug/L | 500 | 68.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | XYLMP | p&m-Xylene | 42 | J | ug/L | 200 | 26.14 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 100-42-5 | Styrene | 31 | J | ug/L | 100 | 20.23 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228 | OPS BATCH 144 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 76 | J | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 99-87-6 | p-Isopropltoluene | 390 | | ug/L | 200 | 25.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 100 | J | ug/L | 200 | 33.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 91-20-3 | Naphthalene | 380 | J | ug/L | 500 | 56.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | | | | |
| NAL13026-228 | OPS BATCH 144 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | 50 | 102% | | |
| NAL13026-228 | OPS BATCH 144 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | 50 | 104% | | |
| NAL13026-228 | OPS BATCH 144 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | 50 | 92% | | |
| NAL13026-228 | OPS BATCH 144 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8347 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-229 | BATCH 145 MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 67-64-1 | Acetone | 35000 | D | ug/L | 5000 | 778.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8350 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 78-93-3 | 2-Butanone | 20000 | | ug/L | 1000 | 16.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 630 | | ug/L | 500 | 20.96 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 26.49 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 100-41-4 | Ethylbenzene | 27 | J | ug/L | 100 | 25.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | XYLMP | p&m-Xylene | 68 | J | ug/L | 200 | 26.14 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 95-47-6 | o-Xylene | 40 | J | ug/L | 100 | 12.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 103-65-1 | n-Propylbenzene | 30 | J | ug/L | 200 | 27.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-229 | BATCH 145 MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 78 | J | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 290 | | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 135-98-8 | sec-Butylbenzene | 65 | J | ug/L | 200 | 32.34 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 99-87-6 | p-Isopropltoluene | 1700 | | ug/L | 200 | 25.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 350 | | ug/L | 200 | 33.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 91-20-3 | Naphthalene | 720 | | ug/L | 500 | 56.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | | | | |
| NAL13026-229 | BATCH 145 MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | 50 | 104% | | |
| NAL13026-229 | BATCH 145 MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | 50 | 102% | | |
| NAL13026-229 | BATCH 145 MSD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | 50 | 92% | | |
| NAL13026-229 | BATCH 145 MSD | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8349 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-230 | OB-146 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 5000 | 778.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8352 | | | | |
| NAL13026-230 | OB-146 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 78-93-3 | 2-Butanone | 18000 | | ug/L | 1000 | 16.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 71-43-2 | Benzene | 32 | J | ug/L | 100 | 13.53 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 108-88-3 | Toluene | 32 | J | ug/L | 100 | 74.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 410 | J | ug/L | 500 | 20.96 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 591-78-6 | 2-Hexanone | 220 | J | ug/L | 500 | 26.49 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 100-41-4 | Ethylbenzene | 32 | J | ug/L | 100 | 25.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | XYLMP | p&m-Xylene | 61 | J | ug/L | 200 | 26.14 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 95-47-6 | o-Xylene | 25 | J | ug/L | 100 | 12.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 100-42-5 | Styrene | 53 | J | ug/L | 100 | 20.23 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-230 | OB-146 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | J | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 74 | J | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 135-98-8 | sec-Butylbenzene | 60 | J | ug/L | 200 | 32.34 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 99-87-6 | p-Isopropltoluene | 370 | | ug/L | 200 | 25.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 120 | J | ug/L | 200 | 33.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 91-20-3 | Naphthalene | 510 | | ug/L | 500 | 56.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | | | | |
| NAL13026-230 | OB-146 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | 50 | 100% | | |
| NAL13026-230 | OB-146 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | 50 | 98% | | |
| NAL13026-230 | OB-146 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | 50 | 92% | | |
| NAL13026-230 | OB-146 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8351 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213CCVA | J052213CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 18 | | ug/L | 5 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 36% | | |
| J052213CCVA | J052213CCVA | ORG | 74-87-3 | Chloromethane | 40 | | ug/L | 5 | 0.43 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 80% | | |
| J052213CCVA | J052213CCVA | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 82% | | |
| J052213CCVA | J052213CCVA | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 100% | | |
| J052213CCVA | J052213CCVA | ORG | 75-00-3 | Chloroethane | 45 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 90% | | |
| J052213CCVA | J052213CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 96% | | |
| J052213CCVA | J052213CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 67-64-1 | Acetone | 55 | | ug/L | 10 | 1.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 1634-04-4 | MTBE | 52 | | ug/L | 5 | 0.61 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 104% | | |
| J052213CCVA | J052213CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 112% | | |
| J052213CCVA | J052213CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 118% | | |
| J052213CCVA | J052213CCVA | ORG | 74-97-5 | Bromochloromethane | 56 | | ug/L | 10 | 0.81 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 112% | | |
| J052213CCVA | J052213CCVA | ORG | 67-66-3 | Chloroform | 58 | | ug/L | 2 | 0.41 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 57 | | ug/L | 1 | 0.16 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 56-23-5 | Carbon tetrachloride | 57 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 71-43-2 | Benzene | 56 | | ug/L | 1 | 0.14 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 112% | | |
| J052213CCVA | J052213CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 79-01-6 | Trichloroethene | 58 | | ug/L | 1 | 0.36 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 74-95-3 | Dibromomethane | 58 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 59 | | ug/L | 1 | 0.18 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 118% | | |
| J052213CCVA | J052213CCVA | ORG | 75-27-4 | Bromodichloromethane | 57 | | ug/L | 2 | 0.12 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 59 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 118% | | |
| J052213CCVA | J052213CCVA | ORG | 108-88-3 | Toluene | 57 | | ug/L | 5 | 0.74 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 118% | | |
| J052213CCVA | J052213CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 60 | | ug/L | 1 | 0.31 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 120% | | |
| J052213CCVA | J052213CCVA | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 100% | | |
| J052213CCVA | J052213CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 58 | | ug/L | 1 | 0.34 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 124-48-1 | Dibromochloromethane | 58 | | ug/L | 5 | 0.69 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 116% | | |
| J052213CCVA | J052213CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 59 | | ug/L | 2 | 0.30 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 118% | | |
| J052213CCVA | J052213CCVA | ORG | 591-78-6 | 2-Hexanone | 55 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 100-41-4 | Ethylbenzene | 55 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 108-90-7 | Chlorobenzene | 56 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 112% | | |
| J052213CCVA | J052213CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.19 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | XYLMP | p&m-Xylene | 110 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 100 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 95-47-6 | o-Xylene | 55 | | ug/L | 1 | 0.13 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 100-42-5 | Styrene | 54 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 106% | | |
| J052213CCVA | J052213CCVA | ORG | 98-82-8 | Isopropylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 103-65-1 | n-Propylbenzene | 55 | | ug/L | 2 | 0.27 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213CCVA | J052213CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 106% | | |
| J052213CCVA | J052213CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 54 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 98-06-6 | tert-Butylbenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 104% | | |
| J052213CCVA | J052213CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 54 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 135-98-8 | sec-Butylbenzene | 54 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 94% | | |
| J052213CCVA | J052213CCVA | ORG | 99-87-6 | p-Isopropltoluene | 54 | | ug/L | 2 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 104% | | |
| J052213CCVA | J052213CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 106% | | |
| J052213CCVA | J052213CCVA | ORG | 104-51-8 | n-Butylbenzene | 54 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 108% | | |
| J052213CCVA | J052213CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 100% | | |
| J052213CCVA | J052213CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 55 | | ug/L | 5 | 0.65 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 110% | | |
| J052213CCVA | J052213CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 57 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 114% | | |
| J052213CCVA | J052213CCVA | ORG | 91-20-3 | Naphthalene | 51 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 102% | | |
| J052213CCVA | J052213CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 53 | | ug/L | 5 | 0.23 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 106% | | |
| J052213CCVA | J052213CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 100% | | |
| J052213CCVA | J052213CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 90% | | |
| J052213CCVA | J052213CCVA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 94% | | |
| J052213CCVA | J052213CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8345 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213MBKA | J052213MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213MBKA | J052213MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | | | | |
| J052213MBKA | J052213MBKA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | 50 | 100% | | |
| J052213MBKA | J052213MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | 50 | 102% | | |
| J052213MBKA | J052213MBKA | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | 50 | 92% | | |
| J052213MBKA | J052213MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8346 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213ALCS | J052213ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 17 | | ug/L | 5 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 34% | | |
| J052213ALCS | J052213ALCS | ORG | 74-87-3 | Chloromethane | 36 | | ug/L | 5 | 0.43 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 72% | | |
| J052213ALCS | J052213ALCS | ORG | 75-01-4 | Vinyl chloride | 39 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 78% | | |
| J052213ALCS | J052213ALCS | ORG | 74-83-9 | Bromomethane | 57 | | ug/L | 5 | 0.50 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 114% | | |
| J052213ALCS | J052213ALCS | ORG | 75-00-3 | Chloroethane | 44 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 88% | | |
| J052213ALCS | J052213ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 49 | | ug/L | 5 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 75-09-2 | Methylene chloride | 52 | | ug/L | 5 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 67-64-1 | Acetone | 59 | | ug/L | 10 | 1.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 118% | | |
| J052213ALCS | J052213ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | ORG | 1634-04-4 | MTBE | 46 | | ug/L | 5 | 0.61 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 100% | | |
| J052213ALCS | J052213ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 114% | | |
| J052213ALCS | J052213ALCS | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 108% | | |
| J052213ALCS | J052213ALCS | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 106% | | |
| J052213ALCS | J052213ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 112% | | |
| J052213ALCS | J052213ALCS | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 102% | | |
| J052213ALCS | J052213ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 106% | | |
| J052213ALCS | J052213ALCS | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 106% | | |
| J052213ALCS | J052213ALCS | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 110% | | |
| J052213ALCS | J052213ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 100% | | |
| J052213ALCS | J052213ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 102% | | |
| J052213ALCS | J052213ALCS | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 52 | | ug/L | 1 | 0.21 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 94% | | |
| J052213ALCS | J052213ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 100% | | |
| J052213ALCS | J052213ALCS | ORG | 124-48-1 | Dibromochloromethane | 52 | | ug/L | 5 | 0.69 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 104% | | |
| J052213ALCS | J052213ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 106% | | |
| J052213ALCS | J052213ALCS | ORG | 591-78-6 | 2-Hexanone | 50 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 100% | | |
| J052213ALCS | J052213ALCS | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | XYLMP | p&m-Xylene | 99 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 100 | 99% | | |
| J052213ALCS | J052213ALCS | ORG | 95-47-6 | o-Xylene | 49 | | ug/L | 1 | 0.13 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213ALCS | J052213ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 94% | | |
| J052213ALCS | J052213ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 98-06-6 | tert-Butylbenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 94% | | |
| J052213ALCS | J052213ALCS | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 49 | | ug/L | 5 | 0.65 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |
| J052213ALCS | J052213ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 100% | | |
| J052213ALCS | J052213ALCS | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 94% | | |
| J052213ALCS | J052213ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 102% | | |
| J052213ALCS | J052213ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 96% | | |
| J052213ALCS | J052213ALCS | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 92% | | |
| J052213ALCS | J052213ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8355 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213ALCD | J052213ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 17 | | ug/L | 5 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 34% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 74-87-3 | Chloromethane | 37 | | ug/L | 5 | 0.43 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 74% | 3% | |
| J052213ALCD | J052213ALCD | ORG | 75-01-4 | Vinyl chloride | 38 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 76% | 3% | |
| J052213ALCD | J052213ALCD | ORG | 74-83-9 | Bromomethane | 54 | | ug/L | 5 | 0.50 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 5% | |
| J052213ALCD | J052213ALCD | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 94% | 7% | |
| J052213ALCD | J052213ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 100% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 67-64-1 | Acetone | 63 | | ug/L | 10 | 1.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 126% | 7% | |
| J052213ALCD | J052213ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 100% | 8% | |
| J052213ALCD | J052213ALCD | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 112% | 20% | |
| J052213ALCD | J052213ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 52 | | ug/L | 1 | 0.53 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 104% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 5% | |
| J052213ALCD | J052213ALCD | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 54 | | ug/L | 1 | 0.16 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 118% | 5% | |
| J052213ALCD | J052213ALCD | ORG | 56-23-5 | Carbon tetrachloride | 54 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 104% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 55 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 110% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 110% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 74-95-3 | Dibromomethane | 56 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 112% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 106% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 106% | 6% | |
| J052213ALCD | J052213ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 106% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 108-88-3 | Toluene | 51 | | ug/L | 5 | 0.74 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 1 | 0.21 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 110% | 6% | |
| J052213ALCD | J052213ALCD | ORG | 127-18-4 | Tetrachloroethene | 51 | | ug/L | 1 | 0.49 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 8% | |
| J052213ALCD | J052213ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 51 | | ug/L | 1 | 0.34 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 108% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 110% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 104% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 100% | 4% | |
| J052213ALCD | J052213ALCD | ORG | XYLMP | p&m-Xylene | 98 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 100 | 98% | 1% | |
| J052213ALCD | J052213ALCD | ORG | 95-47-6 | o-Xylene | 49 | | ug/L | 1 | 0.13 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 100% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052213ALCD | J052213ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 94% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 0% | |
| J052213ALCD | J052213ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 90% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 94% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 48 | | ug/L | 5 | 1.59 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 102% | 2% | |
| J052213ALCD | J052213ALCD | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 4% | |
| J052213ALCD | J052213ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 4% | |
| J052213ALCD | J052213ALCD | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 106% | 4% | |
| J052213ALCD | J052213ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 98% | 2% | |
| J052213ALCD | J052213ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 92% | 0% | |
| J052213ALCD | J052213ALCD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/22/2013 | 5/22/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8356 | 50 | 96% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-71-8 | Dichlorodifluoromethane | 1600 | | ug/L | 500 | 29.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 32% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 74-87-3 | Chloromethane | 3700 | | ug/L | 500 | 43.07 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 74% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 76% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 74-83-9 | Bromomethane | 5800 | | ug/L | 500 | 50.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 116% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-00-3 | Chloroethane | 4100 | | ug/L | 500 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 82% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-69-4 | Trichlorofluoromethane | 4400 | | ug/L | 500 | 19.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 88% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-35-4 | 1,1-Dichloroethene | 4700 | | ug/L | 100 | 47.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 94% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 67-64-1 | Acetone | 44000 | | ug/L | 1000 | 155.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 60% | | 41000 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5000 | | ug/L | 100 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 1634-04-4 | MTBE | 5000 | | ug/L | 500 | 61.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5300 | | ug/L | 100 | 32.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 106% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 74-97-5 | Bromochloromethane | 5600 | | ug/L | 1000 | 81.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 112% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 67-66-3 | Chloroform | 5200 | | ug/L | 200 | 41.37 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 78-93-3 | 2-Butanone | 23000 | | ug/L | 100 | 16.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | 18000 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 56-23-5 | Carbon tetrachloride | 5100 | | ug/L | 100 | 27.64 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 102% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 71-43-2 | Benzene | 5100 | | ug/L | 100 | 13.53 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 102% | | 14 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 107-06-2 | 1,2-Dichloroethane | 5300 | | ug/L | 100 | 20.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 106% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 79-01-6 | Trichloroethene | 5400 | | ug/L | 100 | 36.33 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 108% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 110% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 78-87-5 | 1,2-Dichloropropane | 5200 | | ug/L | 100 | 18.17 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 102% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4800 | | ug/L | 100 | 20.96 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 88% | | 420 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5300 | | ug/L | 100 | 31.15 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 106% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 92% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 102% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 124-48-1 | Dibromochloromethane | 5200 | | ug/L | 500 | 68.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 106% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 591-78-6 | 2-Hexanone | 4400 | | ug/L | 200 | 26.49 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 84% | | 220 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 100-41-4 | Ethylbenzene | 5000 | | ug/L | 100 | 25.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 108-90-7 | Chlorobenzene | 5000 | | ug/L | 100 | 27.52 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 102% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | XYLMP | p&m-Xylene | 10000 | | ug/L | 200 | 26.14 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 10000 | 100% | | 42 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 94% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 97% | | 31 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 98-82-8 | Isopropylbenzene | 5000 | | ug/L | 200 | 20.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 103-65-1 | n-Propylbenzene | 5000 | | ug/L | 200 | 27.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228MS | OPS BATCH 144 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | | ug/L | 200 | 29.16 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 98% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 96% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 94% | | 76 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 135-98-8 | sec-Butylbenzene | 4800 | | ug/L | 200 | 32.34 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 96% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4800 | | ug/L | 200 | 22.21 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 96% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 92% | | 390 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 92% | | 100 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4800 | | ug/L | 200 | 26.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 96% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 104-51-8 | n-Butylbenzene | 4600 | | ug/L | 500 | 27.81 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 92% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 87-68-3 | Hexachlorobutadiene | 4300 | | ug/L | 500 | 65.42 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 86% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 100% | | |
| NAL13026-228MS | OPS BATCH 144 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 96% | | 380 |
| NAL13026-228MS | OPS BATCH 144 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 5000 | 94% | | |
| NAL13026-228MS | OPS BATCH 144 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 50 | 104% | | |
| NAL13026-228MS | OPS BATCH 144 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 50 | 96% | | |
| NAL13026-228MS | OPS BATCH 144 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 50 | 92% | | |
| NAL13026-228MS | OPS BATCH 144 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8353 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-71-8 | Dichlorodifluoromethane | 1800 | | ug/L | 500 | 29.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 36% | 12% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 74-87-3 | Chloromethane | 3800 | | ug/L | 500 | 43.07 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 76% | 3% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-01-4 | Vinyl chloride | 4100 | | ug/L | 200 | 31.86 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 82% | 8% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 74-83-9 | Bromomethane | 6200 | | ug/L | 500 | 50.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 124% | 7% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-00-3 | Chloroethane | 4600 | | ug/L | 500 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 92% | 11% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 102% | 15% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-35-4 | 1,1-Dichloroethene | 5000 | | ug/L | 100 | 47.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 100% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 104% | 0% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 67-64-1 | Acetone | 49000 | | ug/L | 1000 | 155.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 160% | 11% | 41000 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5000 | | ug/L | 100 | 55.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 100% | 0% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 104% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 104% | 0% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5400 | | ug/L | 100 | 32.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 108% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 74-97-5 | Bromochloromethane | 5500 | | ug/L | 1000 | 81.18 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 110% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 67-66-3 | Chloroform | 5400 | | ug/L | 200 | 41.37 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 108% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5400 | | ug/L | 100 | 15.73 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 108% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 78-93-3 | 2-Butanone | 25000 | | ug/L | 100 | 16.65 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 140% | 8% | 18000 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 56-23-5 | Carbon tetrachloride | 5400 | | ug/L | 100 | 27.64 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 108% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 104% | 2% | 14 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 110% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 110% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 74-95-3 | Dibromomethane | 5600 | | ug/L | 200 | 32.20 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 112% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 78-87-5 | 1,2-Dichloropropane | 5600 | | ug/L | 100 | 18.17 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 112% | 7% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 108-88-3 | Toluene | 4700 | | ug/L | 500 | 74.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 94% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 4300 | | ug/L | 100 | 20.96 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 78% | 11% | 420 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 8% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 90% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 102% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 591-78-6 | 2-Hexanone | 4700 | | ug/L | 200 | 26.49 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 90% | 7% | 220 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 108-90-7 | Chlorobenzene | 4900 | | ug/L | 100 | 27.52 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | XYLMP | p&m-Xylene | 9500 | | ug/L | 200 | 26.14 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 10000 | 95% | 5% | 42 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 95-47-6 | o-Xylene | 4900 | | ug/L | 100 | 12.90 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 100-42-5 | Styrene | 4700 | | ug/L | 100 | 20.23 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 93% | 4% | 31 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 75-25-2 | Bromoform | 4900 | | ug/L | 200 | 46.83 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 2% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-228MSD | OPS BATCH 144 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4700 | | ug/L | 200 | 29.16 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 94% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 98% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 92% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 92% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 88% | 6% | 76 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 92% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4400 | | ug/L | 200 | 22.21 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 88% | 9% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 86% | 6% | 390 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4000 | | ug/L | 200 | 33.03 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 78% | 16% | 100 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4400 | | ug/L | 200 | 26.38 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 88% | 9% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 104-51-8 | n-Butylbenzene | 4400 | | ug/L | 500 | 27.81 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 88% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4800 | | ug/L | 500 | 159.11 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 96% | 4% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 87-68-3 | Hexachlorobutadiene | 4300 | | ug/L | 500 | 65.42 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 86% | 0% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4700 | | ug/L | 500 | 27.63 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 94% | 6% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 90% | 6% | 380 |
| NAL13026-228MSD | OPS BATCH 144 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4400 | | ug/L | 500 | 23.28 | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 5000 | 88% | 7% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | STD | 1868-53-7 | Dibromofluoromethane | 57 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 50 | 114% | 9% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 50 | 106% | 10% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 50 | 92% | 0% | 0 |
| NAL13026-228MSD | OPS BATCH 144 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/22/2013 | 5/22/2013 | 5/22/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8354 | 50 | 100% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-231 | OB-147 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 67-64-1 | Acetone | 41000 | D | ug/L | 5000 | 778.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ4361 | | | | |
| NAL13026-231 | OB-147 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 78-93-3 | 2-Butanone | 17000 | | ug/L | 1000 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 400 | J | ug/L | 500 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 591-78-6 | 2-Hexanone | 270 | J | ug/L | 500 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | XYLMP | p&m-Xylene | 31 | J | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 100-42-5 | Styrene | 31 | J | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-231 | OB-147 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 99-87-6 | p-Isopropltoluene | 810 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 150 | J | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 91-20-3 | Naphthalene | 560 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | | | | |
| NAL13026-231 | OB-147 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | 50 | 108% | | |
| NAL13026-231 | OB-147 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | 50 | 106% | | |
| NAL13026-231 | OB-147 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | 50 | 90% | | |
| NAL13026-231 | OB-147 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8360 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-232 | OB-149 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 67-64-1 | Acetone | 38000 | D | ug/L | 5000 | 778.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8363 | | | | |
| NAL13026-232 | OB-149 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 78-93-3 | 2-Butanone | 16000 | | ug/L | 1000 | 16.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 530 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 591-78-6 | 2-Hexanone | 230 | J | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-232 | OB-149 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 99-87-6 | p-Isopropltoluene | 90 | J | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 91-20-3 | Naphthalene | 260 | J | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | | | | |
| NAL13026-232 | OB-149 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | 50 | 102% | | |
| NAL13026-232 | OB-149 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | 50 | 102% | | |
| NAL13026-232 | OB-149 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | 50 | 88% | | |
| NAL13026-232 | OB-149 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8362 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-233 | 148-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 67-64-1 | Acetone | 42000 | D | ug/L | 5000 | 778.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8368 | | | | |
| NAL13026-233 | 148-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 78-93-3 | 2-Butanone | 20000 | | ug/L | 1000 | 16.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 560 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 591-78-6 | 2-Hexanone | 310 | J | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | XYLMP | p&m-Xylene | 62 | J | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 95-47-6 | o-Xylene | 33 | J | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 100-42-5 | Styrene | 36 | J | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-233 | 148-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 310 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 99-87-6 | p-Isopropltoluene | 2000 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 370 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 91-20-3 | Naphthalene | 910 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | | | | |
| NAL13026-233 | 148-MSD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | 50 | 104% | | |
| NAL13026-233 | 148-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | 50 | 108% | | |
| NAL13026-233 | 148-MSD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | 50 | 90% | | |
| NAL13026-233 | 148-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8367 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-234 | 150-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 67-64-1 | Acetone | 96000 | D | ug/L | 10000 | 1556.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8370 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 78-93-3 | 2-Butanone | 53000 | D | ug/L | 10000 | 166.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8370 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1400 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 591-78-6 | 2-Hexanone | 840 | | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 100-42-5 | Styrene | 33 | J | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-234 | 150-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 51 | J | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 200 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 98 | J | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 91-20-3 | Naphthalene | 380 | J | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | | | | |
| NAL13026-234 | 150-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | 50 | 104% | | |
| NAL13026-234 | 150-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | 50 | 104% | | |
| NAL13026-234 | 150-ST T1 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | 50 | 88% | | |
| NAL13026-234 | 150-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8369 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-235 | 150-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 67-64-1 | Acetone | 100000 | D | ug/L | 10000 | 1556.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8372 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 78-93-3 | 2-Butanone | 64000 | D | ug/L | 10000 | 166.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8372 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 71-43-2 | Benzene | 19 | J | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1900 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 591-78-6 | 2-Hexanone | 1100 | | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | XYLMP | p&m-Xylene | 36 | J | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 95-47-6 | o-Xylene | 28 | J | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 100-42-5 | Styrene | 27 | J | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-235 | 150-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 30 | J | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 130 | J | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 520 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 210 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 91-20-3 | Naphthalene | 500 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | | | | |
| NAL13026-235 | 150-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | 50 | 100% | | |
| NAL13026-235 | 150-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | 50 | 100% | | |
| NAL13026-235 | 150-ST T2 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | 50 | 88% | | |
| NAL13026-235 | 150-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8371 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-236 | 150-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 67-64-1 | Acetone | 89000 | D | ug/L | 10000 | 1556.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8374 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 78-93-3 | 2-Butanone | 50000 | D | ug/L | 10000 | 166.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8374 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 108-88-3 | Toluene | 58 | J | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1300 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 591-78-6 | 2-Hexanone | 760 | | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 100-41-4 | Ethylbenzene | 170 | | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | XYLMP | p&m-Xylene | 480 | | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 95-47-6 | o-Xylene | 240 | | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 190 | J | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 150 | J | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-236 | 150-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 340 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 1400 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 260 | | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 6500 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 1300 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 104-51-8 | n-Butylbenzene | 270 | J | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 91-20-3 | Naphthalene | 1700 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | | | | |
| NAL13026-236 | 150-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | 50 | 104% | | |
| NAL13026-236 | 150-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | 50 | 104% | | |
| NAL13026-236 | 150-ST T3 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | 50 | 90% | | |
| NAL13026-236 | 150-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8373 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-237 | 150-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-00-3 | Chloroethane | | UX- | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 67-64-1 | Acetone | 77000 | D | ug/L | 10000 | 1556.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8380 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 78-93-3 | 2-Butanone | 43000 | D | ug/L | 10000 | 166.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8380 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 71-43-2 | Benzene | 15 | J | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 108-88-3 | Toluene | 48 | J | ug/L | 100 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1200 | | ug/L | 500 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 591-78-6 | 2-Hexanone | 700 | | ug/L | 500 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 100-41-4 | Ethylbenzene | 160 | | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | XYLMP | p&m-Xylene | 440 | | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 95-47-6 | o-Xylene | 230 | | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 100-42-5 | Styrene | 68 | J | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 180 | J | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 170 | J | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-237 | 150-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 350 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 1400 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | 250 | | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 6500 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 1500 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 104-51-8 | n-Butylbenzene | 290 | J | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 91-20-3 | Naphthalene | 2200 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | | | | |
| NAL13026-237 | 150-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | 50 | 102% | | |
| NAL13026-237 | 150-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | 50 | 102% | | |
| NAL13026-237 | 150-ST T4 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | 50 | 88% | | |
| NAL13026-237 | 150-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8375 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313CCVA | J052313CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 16 | | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 32% | | |
| J052313CCVA | J052313CCVA | ORG | 74-87-3 | Chloromethane | 40 | | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 80% | | |
| J052313CCVA | J052313CCVA | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 80% | | |
| J052313CCVA | J052313CCVA | ORG | 74-83-9 | Bromomethane | 50 | | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 100% | | |
| J052313CCVA | J052313CCVA | ORG | 75-00-3 | Chloroethane | 38 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 76% | | |
| J052313CCVA | J052313CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 88% | | |
| J052313CCVA | J052313CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 46 | | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 116% | | |
| J052313CCVA | J052313CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 108% | | |
| J052313CCVA | J052313CCVA | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 108% | | |
| J052313CCVA | J052313CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 51 | | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 53 | | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 106% | | |
| J052313CCVA | J052313CCVA | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 110% | | |
| J052313CCVA | J052313CCVA | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 104% | | |
| J052313CCVA | J052313CCVA | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 118% | | |
| J052313CCVA | J052313CCVA | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 71-43-2 | Benzene | 51 | | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 51 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 106% | | |
| J052313CCVA | J052313CCVA | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 104% | | |
| J052313CCVA | J052313CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 55 | | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 110% | | |
| J052313CCVA | J052313CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 96% | | |
| J052313CCVA | J052313CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 100% | | |
| J052313CCVA | J052313CCVA | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 98% | | |
| J052313CCVA | J052313CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 116% | | |
| J052313CCVA | J052313CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 102% | | |
| J052313CCVA | J052313CCVA | ORG | 127-18-4 | Tetrachloroethene | 44 | | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 88% | | |
| J052313CCVA | J052313CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 96% | | |
| J052313CCVA | J052313CCVA | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 98% | | |
| J052313CCVA | J052313CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 98% | | |
| J052313CCVA | J052313CCVA | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 104% | | |
| J052313CCVA | J052313CCVA | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 100 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 75-25-2 | Bromoform | 43 | | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 86% | | |
| J052313CCVA | J052313CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 86% | | |
| J052313CCVA | J052313CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 46 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313CCVA | J052313CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 46 | | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |
| J052313CCVA | J052313CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 86% | | |
| J052313CCVA | J052313CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 45 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 88% | | |
| J052313CCVA | J052313CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 40 | | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 80% | | |
| J052313CCVA | J052313CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 47 | | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 94% | | |
| J052313CCVA | J052313CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 96% | | |
| J052313CCVA | J052313CCVA | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 84% | | |
| J052313CCVA | J052313CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 43 | | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 86% | | |
| J052313CCVA | J052313CCVA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 100% | | |
| J052313CCVA | J052313CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 90% | | |
| J052313CCVA | J052313CCVA | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8358 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313MBKA | J052313MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313MBKA | J052313MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | | | | |
| J052313MBKA | J052313MBKA | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | 50 | 104% | | |
| J052313MBKA | J052313MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | 50 | 104% | | |
| J052313MBKA | J052313MBKA | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | 50 | 90% | | |
| J052313MBKA | J052313MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8359 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313CCVB | J052313CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 16 | | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 32% | | |
| J052313CCVB | J052313CCVB | ORG | 74-87-3 | Chloromethane | 31 | | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 62% | | |
| J052313CCVB | J052313CCVB | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 84% | | |
| J052313CCVB | J052313CCVB | ORG | 74-83-9 | Bromomethane | 59 | | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 118% | | |
| J052313CCVB | J052313CCVB | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |
| J052313CCVB | J052313CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 52 | | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 104% | | |
| J052313CCVB | J052313CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 46 | | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 92% | | |
| J052313CCVB | J052313CCVB | ORG | 75-09-2 | Methylene chloride | 51 | | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 102% | | |
| J052313CCVB | J052313CCVB | ORG | 67-64-1 | Acetone | 56 | | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 112% | | |
| J052313CCVB | J052313CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 104% | | |
| J052313CCVB | J052313CCVB | ORG | 1634-04-4 | MTBE | 58 | | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 116% | | |
| J052313CCVB | J052313CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 100% | | |
| J052313CCVB | J052313CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 104% | | |
| J052313CCVB | J052313CCVB | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 110% | | |
| J052313CCVB | J052313CCVB | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 106% | | |
| J052313CCVB | J052313CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 102% | | |
| J052313CCVB | J052313CCVB | ORG | 78-93-3 | 2-Butanone | 58 | | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 116% | | |
| J052313CCVB | J052313CCVB | ORG | 56-23-5 | Carbon tetrachloride | 50 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 100% | | |
| J052313CCVB | J052313CCVB | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 104% | | |
| J052313CCVB | J052313CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 106% | | |
| J052313CCVB | J052313CCVB | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 106% | | |
| J052313CCVB | J052313CCVB | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 110% | | |
| J052313CCVB | J052313CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 53 | | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 106% | | |
| J052313CCVB | J052313CCVB | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 98% | | |
| J052313CCVB | J052313CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 98% | | |
| J052313CCVB | J052313CCVB | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 98% | | |
| J052313CCVB | J052313CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 106% | | |
| J052313CCVB | J052313CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 102% | | |
| J052313CCVB | J052313CCVB | ORG | 127-18-4 | Tetrachloroethene | 46 | | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 92% | | |
| J052313CCVB | J052313CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 50 | | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 100% | | |
| J052313CCVB | J052313CCVB | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 102% | | |
| J052313CCVB | J052313CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 104% | | |
| J052313CCVB | J052313CCVB | ORG | 591-78-6 | 2-Hexanone | 47 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 100-41-4 | Ethylbenzene | 47 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |
| J052313CCVB | J052313CCVB | ORG | XYLMP | p&m-Xylene | 94 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 100 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313CCVB | J052313CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |
| J052313CCVB | J052313CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |
| J052313CCVB | J052313CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 92% | | |
| J052313CCVB | J052313CCVB | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 92% | | |
| J052313CCVB | J052313CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 92% | | |
| J052313CCVB | J052313CCVB | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 94% | | |
| J052313CCVB | J052313CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 43 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 86% | | |
| J052313CCVB | J052313CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 44 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 88% | | |
| J052313CCVB | J052313CCVB | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 45 | | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 45 | | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 90% | | |
| J052313CCVB | J052313CCVB | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 88% | | |
| J052313CCVB | J052313CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 84% | | |
| J052313CCVB | J052313CCVB | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 108% | | |
| J052313CCVB | J052313CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 96% | | |
| J052313CCVB | J052313CCVB | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 88% | | |
| J052313CCVB | J052313CCVB | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8376 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313MBKB | J052313MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313MBKB | J052313MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | | | | |
| J052313MBKB | J052313MBKB | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | 50 | 104% | | |
| J052313MBKB | J052313MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | 50 | 104% | | |
| J052313MBKB | J052313MBKB | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | 50 | 90% | | |
| J052313MBKB | J052313MBKB | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8379 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313ALCS | J052313ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 24 | | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 48% | | |
| J052313ALCS | J052313ALCS | ORG | 74-87-3 | Chloromethane | 40 | | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 80% | | |
| J052313ALCS | J052313ALCS | ORG | 75-01-4 | Vinyl chloride | 45 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 74-83-9 | Bromomethane | 54 | | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 108% | | |
| J052313ALCS | J052313ALCS | ORG | 75-00-3 | Chloroethane | 49 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 98% | | |
| J052313ALCS | J052313ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 53 | | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 106% | | |
| J052313ALCS | J052313ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 96% | | |
| J052313ALCS | J052313ALCS | ORG | 75-09-2 | Methylene chloride | 52 | | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 104% | | |
| J052313ALCS | J052313ALCS | ORG | 67-64-1 | Acetone | 46 | | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 100% | | |
| J052313ALCS | J052313ALCS | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 96% | | |
| J052313ALCS | J052313ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 51 | | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 102% | | |
| J052313ALCS | J052313ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 104% | | |
| J052313ALCS | J052313ALCS | ORG | 74-97-5 | Bromochloromethane | 55 | | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 110% | | |
| J052313ALCS | J052313ALCS | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 106% | | |
| J052313ALCS | J052313ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 106% | | |
| J052313ALCS | J052313ALCS | ORG | 78-93-3 | 2-Butanone | 58 | | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 116% | | |
| J052313ALCS | J052313ALCS | ORG | 56-23-5 | Carbon tetrachloride | 53 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 106% | | |
| J052313ALCS | J052313ALCS | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 104% | | |
| J052313ALCS | J052313ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 54 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 108% | | |
| J052313ALCS | J052313ALCS | ORG | 79-01-6 | Trichloroethene | 54 | | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 108% | | |
| J052313ALCS | J052313ALCS | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 110% | | |
| J052313ALCS | J052313ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 108% | | |
| J052313ALCS | J052313ALCS | ORG | 75-27-4 | Bromodichloromethane | 49 | | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 98% | | |
| J052313ALCS | J052313ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 100% | | |
| J052313ALCS | J052313ALCS | ORG | 108-88-3 | Toluene | 49 | | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 98% | | |
| J052313ALCS | J052313ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 108% | | |
| J052313ALCS | J052313ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 100% | | |
| J052313ALCS | J052313ALCS | ORG | 127-18-4 | Tetrachloroethene | 43 | | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 86% | | |
| J052313ALCS | J052313ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 98% | | |
| J052313ALCS | J052313ALCS | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 100% | | |
| J052313ALCS | J052313ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 100% | | |
| J052313ALCS | J052313ALCS | ORG | 591-78-6 | 2-Hexanone | 48 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 96% | | |
| J052313ALCS | J052313ALCS | ORG | 100-41-4 | Ethylbenzene | 46 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 108-90-7 | Chlorobenzene | 47 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 94% | | |
| J052313ALCS | J052313ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 100 | 91% | | |
| J052313ALCS | J052313ALCS | ORG | 95-47-6 | o-Xylene | 46 | | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313ALCS | J052313ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 94% | | |
| J052313ALCS | J052313ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 96% | | |
| J052313ALCS | J052313ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 45 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 104-51-8 | n-Butylbenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 44 | | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 88% | | |
| J052313ALCS | J052313ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 46 | | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 92% | | |
| J052313ALCS | J052313ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 96% | | |
| J052313ALCS | J052313ALCS | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 90% | | |
| J052313ALCS | J052313ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 44 | | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 88% | | |
| J052313ALCS | J052313ALCS | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 104% | | |
| J052313ALCS | J052313ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 94% | | |
| J052313ALCS | J052313ALCS | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 88% | | |
| J052313ALCS | J052313ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8377 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313ALCD | J052313ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 26 | | ug/L | 5 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 52% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 74-87-3 | Chloromethane | 40 | | ug/L | 5 | 0.43 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 80% | 0% | |
| J052313ALCD | J052313ALCD | ORG | 75-01-4 | Vinyl chloride | 47 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 94% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 74-83-9 | Bromomethane | 60 | | ug/L | 5 | 0.50 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 120% | 11% | |
| J052313ALCD | J052313ALCD | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 104% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 54 | | ug/L | 5 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 2% | |
| J052313ALCD | J052313ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 2% | |
| J052313ALCD | J052313ALCD | ORG | 75-09-2 | Methylene chloride | 54 | | ug/L | 5 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 67-64-1 | Acetone | 54 | | ug/L | 10 | 1.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 16% | |
| J052313ALCD | J052313ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 116% | 15% | |
| J052313ALCD | J052313ALCD | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 15% | |
| J052313ALCD | J052313ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 110% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 74-97-5 | Bromochloromethane | 59 | | ug/L | 10 | 0.81 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 118% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 67-66-3 | Chloroform | 57 | | ug/L | 2 | 0.41 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 114% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 78-93-3 | 2-Butanone | 56 | | ug/L | 1 | 0.17 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 56-23-5 | Carbon tetrachloride | 56 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 71-43-2 | Benzene | 55 | | ug/L | 1 | 0.14 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 110% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 58 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 116% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 79-01-6 | Trichloroethene | 57 | | ug/L | 1 | 0.36 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 114% | 5% | |
| J052313ALCD | J052313ALCD | ORG | 74-95-3 | Dibromomethane | 59 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 118% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 57 | | ug/L | 1 | 0.18 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 114% | 5% | |
| J052313ALCD | J052313ALCD | ORG | 75-27-4 | Bromodichloromethane | 53 | | ug/L | 2 | 0.12 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 106% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 56 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 112% | 11% | |
| J052313ALCD | J052313ALCD | ORG | 108-88-3 | Toluene | 52 | | ug/L | 5 | 0.74 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 104% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 52 | | ug/L | 1 | 0.21 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 104% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.31 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 110% | 10% | |
| J052313ALCD | J052313ALCD | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 94% | 9% | |
| J052313ALCD | J052313ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 51 | | ug/L | 1 | 0.34 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 102% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 124-48-1 | Dibromochloromethane | 54 | | ug/L | 5 | 0.69 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 54 | | ug/L | 2 | 0.30 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 591-78-6 | 2-Hexanone | 49 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 2% | |
| J052313ALCD | J052313ALCD | ORG | 100-41-4 | Ethylbenzene | 49 | | ug/L | 1 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | | ug/L | 2 | 0.19 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 100% | 8% | |
| J052313ALCD | J052313ALCD | ORG | XYLMP | p&m-Xylene | 98 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 100 | 98% | 7% | |
| J052313ALCD | J052313ALCD | ORG | 95-47-6 | o-Xylene | 50 | | ug/L | 1 | 0.13 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 100% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052313ALCD | J052313ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 2% | |
| J052313ALCD | J052313ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 2% | |
| J052313ALCD | J052313ALCD | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 96% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 9% | |
| J052313ALCD | J052313ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 92% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 100% | 8% | |
| J052313ALCD | J052313ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 102% | 6% | |
| J052313ALCD | J052313ALCD | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 94% | 4% | |
| J052313ALCD | J052313ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 11% | |
| J052313ALCD | J052313ALCD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 108% | 4% | |
| J052313ALCD | J052313ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 100% | 6% | |
| J052313ALCD | J052313ALCD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 90% | 2% | |
| J052313ALCD | J052313ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/23/2013 | 5/23/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8378 | 50 | 98% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-21MS | OB-231 | ORG | 75-71-8 | Dichlorodifluoromethane | 1700 | | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 34% | | |
| NAL13026-21MS | OB-231 | ORG | 74-87-3 | Chloromethane | 3900 | | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 78% | | |
| NAL13026-21MS | OB-231 | ORG | 75-01-4 | Vinyl chloride | 4200 | | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 84% | | |
| NAL13026-21MS | OB-231 | ORG | 74-83-9 | Bromomethane | 5400 | | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 94% | | |
| NAL13026-21MS | OB-231 | ORG | 75-69-4 | Trichlorofluoromethane | 5200 | | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | |
| NAL13026-21MS | OB-231 | ORG | 75-35-4 | 1,1-Dichloroethene | 5200 | | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | |
| NAL13026-21MS | OB-231 | ORG | 75-09-2 | Methylene chloride | 5800 | | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 116% | | |
| NAL13026-21MS | OB-231 | ORG | 67-64-1 | Acetone | 45000 | | ug/L | 1000 | 155.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 80% | | 41000 |
| NAL13026-21MS | OB-231 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5300 | | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 106% | | |
| NAL13026-21MS | OB-231 | ORG | 1634-04-4 | MTBE | 4900 | | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 98% | | |
| NAL13026-21MS | OB-231 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 110% | | |
| NAL13026-21MS | OB-231 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 74-97-5 | Bromochloromethane | 5900 | | ug/L | 1000 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 118% | | |
| NAL13026-21MS | OB-231 | ORG | 67-66-3 | Chloroform | 5700 | | ug/L | 200 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 116% | | |
| NAL13026-21MS | OB-231 | ORG | 78-93-3 | 2-Butanone | 23000 | | ug/L | 100 | 16.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 120% | | 17000 |
| NAL13026-21MS | OB-231 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 71-43-2 | Benzene | 5500 | | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 110% | | |
| NAL13026-21MS | OB-231 | ORG | 107-06-2 | 1,2-Dichloroethane | 5700 | | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 79-01-6 | Trichloroethene | 5800 | | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 116% | | |
| NAL13026-21MS | OB-231 | ORG | 74-95-3 | Dibromomethane | 5700 | | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 78-87-5 | 1,2-Dichloropropane | 5700 | | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 114% | | |
| NAL13026-21MS | OB-231 | ORG | 75-27-4 | Bromodichloromethane | 5500 | | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 110% | | |
| NAL13026-21MS | OB-231 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5600 | | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 112% | | |
| NAL13026-21MS | OB-231 | ORG | 108-88-3 | Toluene | 5500 | | ug/L | 500 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 110% | | |
| NAL13026-21MS | OB-231 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5200 | | ug/L | 100 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 96% | | 400 |
| NAL13026-21MS | OB-231 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5600 | | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 112% | | |
| NAL13026-21MS | OB-231 | ORG | 127-18-4 | Tetrachloroethene | 4800 | | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 96% | | |
| NAL13026-21MS | OB-231 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5400 | | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 124-48-1 | Dibromochloromethane | 5600 | | ug/L | 500 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 112% | | |
| NAL13026-21MS | OB-231 | ORG | 106-93-4 | 1,2-Dibromoethane | 5600 | | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 112% | | |
| NAL13026-21MS | OB-231 | ORG | 591-78-6 | 2-Hexanone | 4600 | | ug/L | 200 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 87% | | 270 |
| NAL13026-21MS | OB-231 | ORG | 100-41-4 | Ethylbenzene | 5400 | | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 108-90-7 | Chlorobenzene | 5400 | | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5300 | | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 106% | | |
| NAL13026-21MS | OB-231 | ORG | XYLMP | p&m-Xylene | 11000 | | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 10000 | 110% | | 31 |
| NAL13026-21MS | OB-231 | ORG | 95-47-6 | o-Xylene | 5400 | | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 100-42-5 | Styrene | 5200 | | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 103% | | 31 |
| NAL13026-21MS | OB-231 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 100% | | |
| NAL13026-21MS | OB-231 | ORG | 98-82-8 | Isopropylbenzene | 5300 | | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 106% | | |
| NAL13026-21MS | OB-231 | ORG | 103-65-1 | n-Propylbenzene | 5400 | | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-21MS | OB-231 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 100% | | |
| NAL13026-21MS | OB-231 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 102% | | |
| NAL13026-21MS | OB-231 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 108% | | |
| NAL13026-21MS | OB-231 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 102% | | |
| NAL13026-21MS | OB-231 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | 110 |
| NAL13026-21MS | OB-231 | ORG | 135-98-8 | sec-Butylbenzene | 5200 | | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | |
| NAL13026-21MS | OB-231 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5300 | | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 106% | | |
| NAL13026-21MS | OB-231 | ORG | 99-87-6 | p-Isopropltoluene | 5800 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 100% | | 810 |
| NAL13026-21MS | OB-231 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 103% | | 150 |
| NAL13026-21MS | OB-231 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5100 | | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 102% | | |
| NAL13026-21MS | OB-231 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | |
| NAL13026-21MS | OB-231 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 100% | | |
| NAL13026-21MS | OB-231 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 102% | | |
| NAL13026-21MS | OB-231 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5500 | | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 110% | | |
| NAL13026-21MS | OB-231 | ORG | 91-20-3 | Naphthalene | 5500 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 99% | | 560 |
| NAL13026-21MS | OB-231 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 5000 | 104% | | |
| NAL13026-21MS | OB-231 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 50 | 102% | | |
| NAL13026-21MS | OB-231 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 50 | 96% | | |
| NAL13026-21MS | OB-231 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 50 | 90% | | |
| NAL13026-21MS | OB-231 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8364 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-231MSD | OB-231 | ORG | 75-71-8 | Dichlorodifluoromethane | 1600 | | ug/L | 500 | 29.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 32% | 6% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 74-87-3 | Chloromethane | 3600 | | ug/L | 500 | 43.07 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 72% | 8% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-01-4 | Vinyl chloride | 4100 | | ug/L | 200 | 31.86 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 82% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 74-83-9 | Bromomethane | 5800 | | ug/L | 500 | 50.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 116% | 7% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 94% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-69-4 | Trichlorofluoromethane | 5200 | | ug/L | 500 | 19.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-35-4 | 1,1-Dichloroethene | 5200 | | ug/L | 100 | 47.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-09-2 | Methylene chloride | 5300 | | ug/L | 500 | 26.46 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 106% | 9% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 67-64-1 | Acetone | 46000 | | ug/L | 1000 | 155.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 100% | 2% | 41000 |
| NAL13026-231MSD | OB-231 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 4% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 1634-04-4 | MTBE | 5400 | | ug/L | 500 | 61.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 108% | 10% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-34-3 | 1,1-Dichloroethane | 5500 | | ug/L | 100 | 52.66 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 114% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 74-97-5 | Bromochloromethane | 5900 | | ug/L | 1000 | 81.18 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 118% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 67-66-3 | Chloroform | 5800 | | ug/L | 200 | 41.37 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 116% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5700 | | ug/L | 100 | 15.73 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 114% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 140% | 4% | 17000 |
| NAL13026-231MSD | OB-231 | ORG | 56-23-5 | Carbon tetrachloride | 5600 | | ug/L | 100 | 27.64 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 112% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 108% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 107-06-2 | 1,2-Dichloroethane | 6000 | | ug/L | 100 | 20.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 120% | 5% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 79-01-6 | Trichloroethene | 5700 | | ug/L | 100 | 36.33 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 114% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 74-95-3 | Dibromomethane | 6000 | | ug/L | 200 | 32.20 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 120% | 5% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 78-87-5 | 1,2-Dichloropropane | 5900 | | ug/L | 100 | 18.17 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 118% | 3% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 75-27-4 | Bromodichloromethane | 5500 | | ug/L | 200 | 11.58 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5600 | | ug/L | 100 | 25.01 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 112% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 108-88-3 | Toluene | 5500 | | ug/L | 500 | 74.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 98% | 2% | 400 |
| NAL13026-231MSD | OB-231 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5700 | | ug/L | 100 | 31.15 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 114% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 127-18-4 | Tetrachloroethene | 4800 | | ug/L | 100 | 48.56 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 96% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5300 | | ug/L | 100 | 34.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 106% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 124-48-1 | Dibromochloromethane | 5600 | | ug/L | 500 | 68.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 112% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 106-93-4 | 1,2-Dibromoethane | 5800 | | ug/L | 200 | 29.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 116% | 4% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 591-78-6 | 2-Hexanone | 4700 | | ug/L | 200 | 26.49 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 89% | 2% | 270 |
| NAL13026-231MSD | OB-231 | ORG | 100-41-4 | Ethylbenzene | 5500 | | ug/L | 100 | 25.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 108-90-7 | Chlorobenzene | 5500 | | ug/L | 100 | 27.52 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5500 | | ug/L | 200 | 19.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 4% | 0 |
| NAL13026-231MSD | OB-231 | ORG | XYLMP | p&m-Xylene | 11000 | | ug/L | 200 | 26.14 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 10000 | 110% | 0% | 31 |
| NAL13026-231MSD | OB-231 | ORG | 95-47-6 | o-Xylene | 5500 | | ug/L | 100 | 12.90 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 100-42-5 | Styrene | 5300 | | ug/L | 100 | 20.23 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 105% | 2% | 31 |
| NAL13026-231MSD | OB-231 | ORG | 75-25-2 | Bromoform | 5400 | | ug/L | 200 | 46.83 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 108% | 8% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 98-82-8 | Isopropylbenzene | 5500 | | ug/L | 200 | 20.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 110% | 4% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 103-65-1 | n-Propylbenzene | 5400 | | ug/L | 200 | 27.00 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 108% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-231MSD | OB-231 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 106% | 6% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 106% | 4% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 108% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 98-06-6 | tert-Butylbenzene | 5100 | | ug/L | 200 | 32.61 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 102% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5200 | | ug/L | 200 | 20.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 102% | 2% | 110 |
| NAL13026-231MSD | OB-231 | ORG | 135-98-8 | sec-Butylbenzene | 5300 | | ug/L | 200 | 32.34 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 106% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 100% | 6% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 99-87-6 | p-Isopropltoluene | 6000 | | ug/L | 200 | 25.48 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 3% | 810 |
| NAL13026-231MSD | OB-231 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5100 | | ug/L | 200 | 33.03 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 99% | 4% | 150 |
| NAL13026-231MSD | OB-231 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 100% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 0% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5600 | | ug/L | 500 | 159.11 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 112% | 11% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5600 | | ug/L | 500 | 27.63 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 112% | 2% | 0 |
| NAL13026-231MSD | OB-231 | ORG | 91-20-3 | Naphthalene | 5700 | | ug/L | 500 | 56.04 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 103% | 4% | 560 |
| NAL13026-231MSD | OB-231 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 5000 | 104% | 0% | 0 |
| NAL13026-231MSD | OB-231 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 50 | 104% | 2% | 0 |
| NAL13026-231MSD | OB-231 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 50 | 96% | 0% | 0 |
| NAL13026-231MSD | OB-231 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 50 | 92% | 2% | 0 |
| NAL13026-231MSD | OB-231 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/23/2013 | 5/23/2013 | 5/23/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8365 | 50 | 100% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238 | OB-151 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 67-64-1 | Acetone | 45000 | D | ug/L | 5000 | 778.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8384 | | | | |
| NAL13026-238 | OB-151 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 78-93-3 | 2-Butanone | 18000 | | ug/L | 1000 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 460 | J | ug/L | 500 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 591-78-6 | 2-Hexanone | 280 | J | ug/L | 500 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | XYLMP | p&m-Xylene | 28 | J | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 100-42-5 | Styrene | 39 | J | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238 | OB-151 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 99-87-6 | p-Isopropltoluene | 380 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 110 | J | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 91-20-3 | Naphthalene | 410 | J | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | | | | |
| NAL13026-238 | OB-151 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | 50 | 102% | | |
| NAL13026-238 | OB-151 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | 50 | 104% | | |
| NAL13026-238 | OB-151 | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | 50 | 90% | | |
| NAL13026-238 | OB-151 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8383 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-239 | OB-152 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 67-64-1 | Acetone | 55000 | D | ug/L | 5000 | 778.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8386 | | | | |
| NAL13026-239 | OB-152 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 78-93-3 | 2-Butanone | 28000 | D | ug/L | 5000 | 83.26 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8386 | | | | |
| NAL13026-239 | OB-152 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 760 | | ug/L | 500 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 591-78-6 | 2-Hexanone | 340 | J | ug/L | 500 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 100-42-5 | Styrene | 32 | J | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-239 | OB-152 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | J | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 99-87-6 | p-Isopropltoluene | 300 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 110 | J | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 91-20-3 | Naphthalene | 360 | J | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | | | | |
| NAL13026-239 | OB-152 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | 50 | 102% | | |
| NAL13026-239 | OB-152 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | 50 | 102% | | |
| NAL13026-239 | OB-152 | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | 50 | 92% | | |
| NAL13026-239 | OB-152 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8385 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-240 | 153-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 5000 | 778.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8388 | | | | |
| NAL13026-240 | 153-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 78-93-3 | 2-Butanone | 25000 | D | ug/L | 5000 | 83.26 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8388 | | | | |
| NAL13026-240 | 153-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 71-43-2 | Benzene | 19 | J | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 810 | | ug/L | 500 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 100-41-4 | Ethylbenzene | 57 | J | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | XYLMP | p&m-Xylene | 170 | J | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 95-47-6 | o-Xylene | 84 | J | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 100-42-5 | Styrene | 40 | J | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 98-82-8 | Isopropylbenzene | 82 | J | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 103-65-1 | n-Propylbenzene | 75 | J | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-240 | 153-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 740 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 99-87-6 | p-Isopropltoluene | 4300 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 770 | | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 91-20-3 | Naphthalene | 1300 | | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | | | | |
| NAL13026-240 | 153-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | 50 | 102% | | |
| NAL13026-240 | 153-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | 50 | 100% | | |
| NAL13026-240 | 153-MSD | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | 50 | 90% | | |
| NAL13026-240 | 153-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8387 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-241 | OB-154 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 67-64-1 | Acetone | 53000 | D | ug/L | 5000 | 778.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8395 | | | | |
| NAL13026-241 | OB-154 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 78-93-3 | 2-Butanone | 22000 | D | ug/L | 5000 | 83.26 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 500 | NA | 5.0 | NA | SW8260B | NALJ8395 | | | | |
| NAL13026-241 | OB-154 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 71-43-2 | Benzene | 200 | | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 108-88-3 | Toluene | 33 | J | ug/L | 100 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 860 | | ug/L | 500 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 591-78-6 | 2-Hexanone | 360 | J | ug/L | 500 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 100-41-4 | Ethylbenzene | 69 | J | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | XYLMP | p&m-Xylene | 170 | J | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 95-47-6 | o-Xylene | 91 | J | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 100-42-5 | Styrene | 50 | J | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 98-82-8 | Isopropylbenzene | 46 | J | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 103-65-1 | n-Propylbenzene | 40 | J | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-241 | OB-154 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 190 | J | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 380 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 99-87-6 | p-Isopropltoluene | 1800 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 470 | | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 104-51-8 | n-Butylbenzene | 97 | J | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | UX- | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 91-20-3 | Naphthalene | 780 | | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | | | | |
| NAL13026-241 | OB-154 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | 50 | 108% | | |
| NAL13026-241 | OB-154 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | 50 | 106% | | |
| NAL13026-241 | OB-154 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | 50 | 88% | | |
| NAL13026-241 | OB-154 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8394 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413CCVA | J052413CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 58 | | ug/L | 5 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 116% | | |
| J052413CCVA | J052413CCVA | ORG | 74-87-3 | Chloromethane | 56 | | ug/L | 5 | 0.43 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 112% | | |
| J052413CCVA | J052413CCVA | ORG | 75-01-4 | Vinyl chloride | 56 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 112% | | |
| J052413CCVA | J052413CCVA | ORG | 74-83-9 | Bromomethane | 60 | | ug/L | 5 | 0.50 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 120% | | |
| J052413CCVA | J052413CCVA | ORG | 75-00-3 | Chloroethane | 50 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 100% | | |
| J052413CCVA | J052413CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 46 | | ug/L | 1 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 92% | | |
| J052413CCVA | J052413CCVA | ORG | 75-09-2 | Methylene chloride | 49 | | ug/L | 5 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 98% | | |
| J052413CCVA | J052413CCVA | ORG | 67-64-1 | Acetone | 49 | | ug/L | 10 | 1.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 98% | | |
| J052413CCVA | J052413CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 108% | | |
| J052413CCVA | J052413CCVA | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 100% | | |
| J052413CCVA | J052413CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 100% | | |
| J052413CCVA | J052413CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 100% | | |
| J052413CCVA | J052413CCVA | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 106% | | |
| J052413CCVA | J052413CCVA | ORG | 67-66-3 | Chloroform | 51 | | ug/L | 2 | 0.41 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 51 | | ug/L | 1 | 0.16 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | ORG | 71-43-2 | Benzene | 49 | | ug/L | 1 | 0.14 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 98% | | |
| J052413CCVA | J052413CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 104% | | |
| J052413CCVA | J052413CCVA | ORG | 79-01-6 | Trichloroethene | 52 | | ug/L | 1 | 0.36 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 104% | | |
| J052413CCVA | J052413CCVA | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 104% | | |
| J052413CCVA | J052413CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 104% | | |
| J052413CCVA | J052413CCVA | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 96% | | |
| J052413CCVA | J052413CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 98% | | |
| J052413CCVA | J052413CCVA | ORG | 108-88-3 | Toluene | 47 | | ug/L | 5 | 0.74 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 94% | | |
| J052413CCVA | J052413CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 50 | | ug/L | 1 | 0.21 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 100% | | |
| J052413CCVA | J052413CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 98% | | |
| J052413CCVA | J052413CCVA | ORG | 127-18-4 | Tetrachloroethene | 43 | | ug/L | 1 | 0.49 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 86% | | |
| J052413CCVA | J052413CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 92% | | |
| J052413CCVA | J052413CCVA | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 96% | | |
| J052413CCVA | J052413CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 94% | | |
| J052413CCVA | J052413CCVA | ORG | 591-78-6 | 2-Hexanone | 45 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 108-90-7 | Chlorobenzene | 46 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 92% | | |
| J052413CCVA | J052413CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 92% | | |
| J052413CCVA | J052413CCVA | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 100 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 75-25-2 | Bromoform | 43 | | ug/L | 2 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 86% | | |
| J052413CCVA | J052413CCVA | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413CCVA | J052413CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 41 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 82% | | |
| J052413CCVA | J052413CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 43 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 86% | | |
| J052413CCVA | J052413CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 98-06-6 | tert-Butylbenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 45 | | ug/L | 2 | 0.22 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 90% | | |
| J052413CCVA | J052413CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 44 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 44 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 38 | | ug/L | 5 | 1.59 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 76% | | |
| J052413CCVA | J052413CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 47 | | ug/L | 5 | 0.65 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 94% | | |
| J052413CCVA | J052413CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 92% | | |
| J052413CCVA | J052413CCVA | ORG | 91-20-3 | Naphthalene | 40 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 80% | | |
| J052413CCVA | J052413CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 84% | | |
| J052413CCVA | J052413CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 102% | | |
| J052413CCVA | J052413CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 94% | | |
| J052413CCVA | J052413CCVA | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 88% | | |
| J052413CCVA | J052413CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8381 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413MBKA | J052413MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413MBKA | J052413MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | | | | |
| J052413MBKA | J052413MBKA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | 50 | 106% | | |
| J052413MBKA | J052413MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | 50 | 106% | | |
| J052413MBKA | J052413MBKA | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | 50 | 90% | | |
| J052413MBKA | J052413MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8382 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413ALCS | J052413ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 54 | | ug/L | 5 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 108% | | |
| J052413ALCS | J052413ALCS | ORG | 74-87-3 | Chloromethane | 58 | | ug/L | 5 | 0.43 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 116% | | |
| J052413ALCS | J052413ALCS | ORG | 75-01-4 | Vinyl chloride | 58 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 116% | | |
| J052413ALCS | J052413ALCS | ORG | 74-83-9 | Bromomethane | 64 | | ug/L | 5 | 0.50 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 128% | | |
| J052413ALCS | J052413ALCS | ORG | 75-00-3 | Chloroethane | 55 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 110% | | |
| J052413ALCS | J052413ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 61 | | ug/L | 5 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 122% | | |
| J052413ALCS | J052413ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 108% | | |
| J052413ALCS | J052413ALCS | ORG | 75-09-2 | Methylene chloride | 57 | | ug/L | 5 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 114% | | |
| J052413ALCS | J052413ALCS | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 120% | | |
| J052413ALCS | J052413ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 94% | | |
| J052413ALCS | J052413ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 98% | | |
| J052413ALCS | J052413ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 74-97-5 | Bromochloromethane | 59 | | ug/L | 10 | 0.81 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 118% | | |
| J052413ALCS | J052413ALCS | ORG | 67-66-3 | Chloroform | 56 | | ug/L | 2 | 0.41 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 108% | | |
| J052413ALCS | J052413ALCS | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 110% | | |
| J052413ALCS | J052413ALCS | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 108% | | |
| J052413ALCS | J052413ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 56 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 79-01-6 | Trichloroethene | 56 | | ug/L | 1 | 0.36 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 74-95-3 | Dibromomethane | 57 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 114% | | |
| J052413ALCS | J052413ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 56 | | ug/L | 1 | 0.18 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 112% | | |
| J052413ALCS | J052413ALCS | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 104% | | |
| J052413ALCS | J052413ALCS | ORG | 108-88-3 | Toluene | 50 | | ug/L | 5 | 0.74 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 52 | | ug/L | 1 | 0.31 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 104% | | |
| J052413ALCS | J052413ALCS | ORG | 127-18-4 | Tetrachloroethene | 45 | | ug/L | 1 | 0.49 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 90% | | |
| J052413ALCS | J052413ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 49 | | ug/L | 1 | 0.34 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 98% | | |
| J052413ALCS | J052413ALCS | ORG | 124-48-1 | Dibromochloromethane | 50 | | ug/L | 5 | 0.69 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | ORG | 591-78-6 | 2-Hexanone | 46 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 92% | | |
| J052413ALCS | J052413ALCS | ORG | 100-41-4 | Ethylbenzene | 53 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | ORG | 108-90-7 | Chlorobenzene | 53 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.19 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 104% | | |
| J052413ALCS | J052413ALCS | ORG | XYLMP | p&m-Xylene | 102 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 100 | 102% | | |
| J052413ALCS | J052413ALCS | ORG | 95-47-6 | o-Xylene | 52 | | ug/L | 1 | 0.13 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 104% | | |
| J052413ALCS | J052413ALCS | ORG | 100-42-5 | Styrene | 51 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |
| J052413ALCS | J052413ALCS | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 94% | | |
| J052413ALCS | J052413ALCS | ORG | 98-82-8 | Isopropylbenzene | 52 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 104% | | |
| J052413ALCS | J052413ALCS | ORG | 103-65-1 | n-Propylbenzene | 51 | | ug/L | 2 | 0.27 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413ALCS | J052413ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 90% | | |
| J052413ALCS | J052413ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 94% | | |
| J052413ALCS | J052413ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 51 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |
| J052413ALCS | J052413ALCS | ORG | 98-06-6 | tert-Butylbenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |
| J052413ALCS | J052413ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 135-98-8 | sec-Butylbenzene | 50 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 99-87-6 | p-Isopropltoluene | 50 | | ug/L | 2 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 96% | | |
| J052413ALCS | J052413ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 92% | | |
| J052413ALCS | J052413ALCS | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 96% | | |
| J052413ALCS | J052413ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 94% | | |
| J052413ALCS | J052413ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 51 | | ug/L | 5 | 0.65 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |
| J052413ALCS | J052413ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 98% | | |
| J052413ALCS | J052413ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 100% | | |
| J052413ALCS | J052413ALCS | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 106% | | |
| J052413ALCS | J052413ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 96% | | |
| J052413ALCS | J052413ALCS | STD | 2037-26-5 | Toluene d8 | 45 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 90% | | |
| J052413ALCS | J052413ALCS | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8389 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413ALCD | J052413ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 62 | | ug/L | 5 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 124% | 14% | |
| J052413ALCD | J052413ALCD | ORG | 74-87-3 | Chloromethane | 61 | | ug/L | 5 | 0.43 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 122% | 5% | |
| J052413ALCD | J052413ALCD | ORG | 75-01-4 | Vinyl chloride | 62 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 124% | 7% | |
| J052413ALCD | J052413ALCD | ORG | 74-83-9 | Bromomethane | 65 | | ug/L | 5 | 0.50 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 130% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 75-00-3 | Chloroethane | 59 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 118% | 7% | |
| J052413ALCD | J052413ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 65 | | ug/L | 5 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 130% | 6% | |
| J052413ALCD | J052413ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 54 | | ug/L | 1 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 108% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 75-09-2 | Methylene chloride | 56 | | ug/L | 5 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 112% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 67-64-1 | Acetone | 51 | | ug/L | 10 | 1.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 16% | |
| J052413ALCD | J052413ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 1634-04-4 | MTBE | 42 | | ug/L | 5 | 0.61 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 84% | 11% | |
| J052413ALCD | J052413ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 96% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 54 | | ug/L | 1 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 108% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 108% | 9% | |
| J052413ALCD | J052413ALCD | ORG | 67-66-3 | Chloroform | 54 | | ug/L | 2 | 0.41 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 108% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 56 | | ug/L | 1 | 0.16 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 112% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 78-93-3 | 2-Butanone | 50 | | ug/L | 1 | 0.17 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 8% | |
| J052413ALCD | J052413ALCD | ORG | 56-23-5 | Carbon tetrachloride | 55 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 110% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 71-43-2 | Benzene | 52 | | ug/L | 1 | 0.14 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 53 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 106% | 6% | |
| J052413ALCD | J052413ALCD | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 110% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 9% | |
| J052413ALCD | J052413ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 54 | | ug/L | 1 | 0.18 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 108% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 75-27-4 | Bromodichloromethane | 50 | | ug/L | 2 | 0.12 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 108-88-3 | Toluene | 51 | | ug/L | 5 | 0.74 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 44 | | ug/L | 1 | 0.21 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 88% | 19% | |
| J052413ALCD | J052413ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 50 | | ug/L | 1 | 0.31 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 11% | |
| J052413ALCD | J052413ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 92% | 6% | |
| J052413ALCD | J052413ALCD | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 96% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 94% | 12% | |
| J052413ALCD | J052413ALCD | ORG | 591-78-6 | 2-Hexanone | 39 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 78% | 16% | |
| J052413ALCD | J052413ALCD | ORG | 100-41-4 | Ethylbenzene | 52 | | ug/L | 1 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 108-90-7 | Chlorobenzene | 52 | | ug/L | 1 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.19 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 2% | |
| J052413ALCD | J052413ALCD | ORG | XYLMP | p&m-Xylene | 102 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 100 | 102% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 95-47-6 | o-Xylene | 51 | | ug/L | 1 | 0.13 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 98% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 75-25-2 | Bromoform | 44 | | ug/L | 2 | 0.47 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 88% | 7% | |
| J052413ALCD | J052413ALCD | ORG | 98-82-8 | Isopropylbenzene | 52 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052413ALCD | J052413ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 39 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 78% | 14% | |
| J052413ALCD | J052413ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 41 | | ug/L | 2 | 0.29 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 82% | 14% | |
| J052413ALCD | J052413ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 98% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 96% | 6% | |
| J052413ALCD | J052413ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 98% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 135-98-8 | sec-Butylbenzene | 50 | | ug/L | 2 | 0.32 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 98% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 99-87-6 | p-Isopropltoluene | 50 | | ug/L | 2 | 0.25 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 94% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 45 | | ug/L | 2 | 0.26 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 90% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 96% | 0% | |
| J052413ALCD | J052413ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 39 | | ug/L | 5 | 1.59 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 78% | 19% | |
| J052413ALCD | J052413ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 2% | |
| J052413ALCD | J052413ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 102% | 4% | |
| J052413ALCD | J052413ALCD | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 90% | 9% | |
| J052413ALCD | J052413ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 98% | 2% | |
| J052413ALCD | J052413ALCD | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 104% | 2% | |
| J052413ALCD | J052413ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 90% | 6% | |
| J052413ALCD | J052413ALCD | STD | 2037-26-5 | Toluene d8 | 46 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 92% | 2% | |
| J052413ALCD | J052413ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/24/2013 | 5/24/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8390 | 50 | 100% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238MS | OB-151 | ORG | 75-71-8 | Dichlorodifluoromethane | 4300 | | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 86% | | |
| NAL13026-238MS | OB-151 | ORG | 74-87-3 | Chloromethane | 4200 | | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 84% | | |
| NAL13026-238MS | OB-151 | ORG | 75-01-4 | Vinyl chloride | 4400 | | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 88% | | |
| NAL13026-238MS | OB-151 | ORG | 74-83-9 | Bromomethane | 6500 | | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 130% | | |
| NAL13026-238MS | OB-151 | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 94% | | |
| NAL13026-238MS | OB-151 | ORG | 75-69-4 | Trichlorofluoromethane | 4900 | | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 98% | | |
| NAL13026-238MS | OB-151 | ORG | 75-35-4 | 1,1-Dichloroethene | 4900 | | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 98% | | |
| NAL13026-238MS | OB-151 | ORG | 75-09-2 | Methylene chloride | 5500 | | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 110% | | |
| NAL13026-238MS | OB-151 | ORG | 67-64-1 | Acetone | 53000 | | ug/L | 1000 | 155.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 160% | | 45000 |
| NAL13026-238MS | OB-151 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4800 | | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 96% | | |
| NAL13026-238MS | OB-151 | ORG | 1634-04-4 | MTBE | 4500 | | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 90% | | |
| NAL13026-238MS | OB-151 | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 94% | | |
| NAL13026-238MS | OB-151 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5200 | | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | 74-97-5 | Bromochloromethane | 5500 | | ug/L | 1000 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 110% | | |
| NAL13026-238MS | OB-151 | ORG | 67-66-3 | Chloroform | 5300 | | ug/L | 200 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 106% | | |
| NAL13026-238MS | OB-151 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5500 | | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 110% | | |
| NAL13026-238MS | OB-151 | ORG | 78-93-3 | 2-Butanone | 21000 | | ug/L | 100 | 16.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 60% | | 18000 |
| NAL13026-238MS | OB-151 | ORG | 56-23-5 | Carbon tetrachloride | 5400 | | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 108% | | |
| NAL13026-238MS | OB-151 | ORG | 71-43-2 | Benzene | 5200 | | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | 107-06-2 | 1,2-Dichloroethane | 5400 | | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 108% | | |
| NAL13026-238MS | OB-151 | ORG | 79-01-6 | Trichloroethene | 5500 | | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 110% | | |
| NAL13026-238MS | OB-151 | ORG | 74-95-3 | Dibromomethane | 5500 | | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 110% | | |
| NAL13026-238MS | OB-151 | ORG | 78-87-5 | 1,2-Dichloropropane | 5700 | | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 114% | | |
| NAL13026-238MS | OB-151 | ORG | 75-27-4 | Bromodichloromethane | 5100 | | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 102% | | |
| NAL13026-238MS | OB-151 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | 108-88-3 | Toluene | 5000 | | ug/L | 500 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5100 | | ug/L | 100 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 93% | | 460 |
| NAL13026-238MS | OB-151 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 102% | | |
| NAL13026-238MS | OB-151 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 90% | | |
| NAL13026-238MS | OB-151 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 96% | | |
| NAL13026-238MS | OB-151 | ORG | 124-48-1 | Dibromochloromethane | 5000 | | ug/L | 500 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 106-93-4 | 1,2-Dibromoethane | 5000 | | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 591-78-6 | 2-Hexanone | 4000 | | ug/L | 200 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 74% | | 280 |
| NAL13026-238MS | OB-151 | ORG | 100-41-4 | Ethylbenzene | 5200 | | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | 108-90-7 | Chlorobenzene | 5300 | | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 106% | | |
| NAL13026-238MS | OB-151 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5200 | | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | XYLMP | p&m-Xylene | 10000 | | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 10000 | 100% | | 28 |
| NAL13026-238MS | OB-151 | ORG | 95-47-6 | o-Xylene | 5000 | | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 97% | | 39 |
| NAL13026-238MS | OB-151 | ORG | 75-25-2 | Bromoform | 4600 | | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 92% | | |
| NAL13026-238MS | OB-151 | ORG | 98-82-8 | Isopropylbenzene | 5100 | | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 102% | | |
| NAL13026-238MS | OB-151 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238MS | OB-151 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4300 | | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 86% | | |
| NAL13026-238MS | OB-151 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4400 | | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 88% | | |
| NAL13026-238MS | OB-151 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 98-06-6 | tert-Butylbenzene | 4900 | | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 98% | | |
| NAL13026-238MS | OB-151 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 97% | | 67 |
| NAL13026-238MS | OB-151 | ORG | 135-98-8 | sec-Butylbenzene | 5000 | | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 100% | | |
| NAL13026-238MS | OB-151 | ORG | 99-87-6 | p-Isopropltoluene | 5100 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 94% | | 380 |
| NAL13026-238MS | OB-151 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 96% | | 110 |
| NAL13026-238MS | OB-151 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 92% | | |
| NAL13026-238MS | OB-151 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 94% | | |
| NAL13026-238MS | OB-151 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4400 | | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 88% | | |
| NAL13026-238MS | OB-151 | ORG | 87-68-3 | Hexachlorobutadiene | 4700 | | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 94% | | |
| NAL13026-238MS | OB-151 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5200 | | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 104% | | |
| NAL13026-238MS | OB-151 | ORG | 91-20-3 | Naphthalene | 5000 | | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 92% | | 410 |
| NAL13026-238MS | OB-151 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 5000 | 98% | | |
| NAL13026-238MS | OB-151 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 50 | 102% | | |
| NAL13026-238MS | OB-151 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 50 | 94% | | |
| NAL13026-238MS | OB-151 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 50 | 88% | | |
| NAL13026-238MS | OB-151 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8391 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238MSD | OB-151 | ORG | 75-71-8 | Dichlorodifluoromethane | 4300 | | ug/L | 500 | 29.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 86% | 0% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 74-87-3 | Chloromethane | 4300 | | ug/L | 500 | 43.07 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 86% | 2% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-01-4 | Vinyl chloride | 5000 | | ug/L | 200 | 31.86 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 100% | 13% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 74-83-9 | Bromomethane | 6200 | | ug/L | 500 | 50.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 124% | 5% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-00-3 | Chloroethane | 4700 | | ug/L | 500 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 94% | 0% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-35-4 | 1,1-Dichloroethene | 5100 | | ug/L | 100 | 47.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 114% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 67-64-1 | Acetone | 51000 | | ug/L | 1000 | 155.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 120% | 4% | 45000 |
| NAL13026-238MSD | OB-151 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5100 | | ug/L | 100 | 55.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 1634-04-4 | MTBE | 4700 | | ug/L | 500 | 61.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 94% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-34-3 | 1,1-Dichloroethane | 5000 | | ug/L | 100 | 52.66 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 100% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5600 | | ug/L | 100 | 32.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 112% | 7% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 74-97-5 | Bromochloromethane | 5800 | | ug/L | 1000 | 81.18 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 116% | 5% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 67-66-3 | Chloroform | 5900 | | ug/L | 200 | 41.37 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 118% | 11% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5600 | | ug/L | 100 | 15.73 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 112% | 2% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 78-93-3 | 2-Butanone | 21000 | | ug/L | 100 | 16.65 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 60% | 0% | 18000 |
| NAL13026-238MSD | OB-151 | ORG | 56-23-5 | Carbon tetrachloride | 5700 | | ug/L | 100 | 27.64 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 114% | 5% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 71-43-2 | Benzene | 5400 | | ug/L | 100 | 13.53 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 107-06-2 | 1,2-Dichloroethane | 5800 | | ug/L | 100 | 20.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 116% | 7% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 79-01-6 | Trichloroethene | 5700 | | ug/L | 100 | 36.33 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 114% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 74-95-3 | Dibromomethane | 5800 | | ug/L | 200 | 32.20 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 116% | 5% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 78-87-5 | 1,2-Dichloropropane | 5900 | | ug/L | 100 | 18.17 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 118% | 3% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 75-27-4 | Bromodichloromethane | 5400 | | ug/L | 200 | 11.58 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5500 | | ug/L | 100 | 25.01 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 108-88-3 | Toluene | 5400 | | ug/L | 500 | 74.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5000 | | ug/L | 100 | 20.96 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 91% | 2% | 460 |
| NAL13026-238MSD | OB-151 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 127-18-4 | Tetrachloroethene | 4900 | | ug/L | 100 | 48.56 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 98% | 9% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 106-93-4 | 1,2-Dibromoethane | 5400 | | ug/L | 200 | 29.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 591-78-6 | 2-Hexanone | 5100 | | ug/L | 200 | 26.49 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 96% | 24% | 280 |
| NAL13026-238MSD | OB-151 | ORG | 100-41-4 | Ethylbenzene | 5500 | | ug/L | 100 | 25.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 108-90-7 | Chlorobenzene | 5500 | | ug/L | 100 | 27.52 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5500 | | ug/L | 200 | 19.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | XYLMP | p&m-Xylene | 11000 | | ug/L | 200 | 26.14 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 10000 | 110% | 10% | 28 |
| NAL13026-238MSD | OB-151 | ORG | 95-47-6 | o-Xylene | 5400 | | ug/L | 100 | 12.90 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 100-42-5 | Styrene | 5200 | | ug/L | 100 | 20.23 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 103% | 6% | 39 |
| NAL13026-238MSD | OB-151 | ORG | 75-25-2 | Bromoform | 4800 | | ug/L | 200 | 46.83 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 96% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 98-82-8 | Isopropylbenzene | 5500 | | ug/L | 200 | 20.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 103-65-1 | n-Propylbenzene | 5400 | | ug/L | 200 | 27.00 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 10% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-238MSD | OB-151 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4400 | | ug/L | 200 | 29.16 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 88% | 2% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4600 | | ug/L | 200 | 29.47 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 92% | 4% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 98-06-6 | tert-Butylbenzene | 5300 | | ug/L | 200 | 32.61 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 106% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5200 | | ug/L | 200 | 20.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 103% | 6% | 67 |
| NAL13026-238MSD | OB-151 | ORG | 135-98-8 | sec-Butylbenzene | 5400 | | ug/L | 200 | 32.34 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 108% | 8% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 2% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 99-87-6 | p-Isopropltoluene | 5500 | | ug/L | 200 | 25.48 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 102% | 8% | 380 |
| NAL13026-238MSD | OB-151 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 96% | 0% | 110 |
| NAL13026-238MSD | OB-151 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 98% | 6% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 104% | 10% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4400 | | ug/L | 500 | 159.11 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 88% | 0% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 87-68-3 | Hexachlorobutadiene | 5800 | | ug/L | 500 | 65.42 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 116% | 21% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5900 | | ug/L | 500 | 27.63 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 118% | 13% | 0 |
| NAL13026-238MSD | OB-151 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 96% | 4% | 410 |
| NAL13026-238MSD | OB-151 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5500 | | ug/L | 500 | 23.28 | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 5000 | 110% | 12% | 0 |
| NAL13026-238MSD | OB-151 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 50 | 102% | 0% | 0 |
| NAL13026-238MSD | OB-151 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 50 | 90% | 4% | 0 |
| NAL13026-238MSD | OB-151 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 50 | 88% | 0% | 0 |
| NAL13026-238MSD | OB-151 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/24/2013 | 5/24/2013 | 5/24/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8392 | 50 | 98% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242 | 156-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 67-64-1 | Acetone | 77000 | D | ug/L | 10000 | 1556.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8399 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 78-93-3 | 2-Butanone | 39000 | D | ug/L | 10000 | 811.80 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8399 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1300 | | ug/L | 500 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 591-78-6 | 2-Hexanone | 580 | | ug/L | 500 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | XYLMP | p&m-Xylene | 35 | J | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 95-47-6 | o-Xylene | 22 | J | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 100-42-5 | Styrene | 36 | J | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242 | 156-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 37 | J | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 150 | J | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 790 | | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 220 | | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 91-20-3 | Naphthalene | 570 | | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | | | | |
| NAL13026-242 | 156-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | 50 | 106% | | |
| NAL13026-242 | 156-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | 50 | 102% | | |
| NAL13026-242 | 156-ST T1 | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | 50 | 86% | | |
| NAL13026-242 | 156-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8398 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-243 | 156-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 67-64-1 | Acetone | 95000 | D | ug/L | 10000 | 1556.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8401 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 78-93-3 | 2-Butanone | 48000 | D | ug/L | 10000 | 166.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8401 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1500 | | ug/L | 500 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 591-78-6 | 2-Hexanone | 690 | | ug/L | 500 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 100-42-5 | Styrene | 29 | J | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-243 | 156-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 33 | J | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 110 | J | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 85 | J | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 91-20-3 | Naphthalene | 300 | J | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | | | | |
| NAL13026-243 | 156-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | 50 | 106% | | |
| NAL13026-243 | 156-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | 50 | 100% | | |
| NAL13026-243 | 156-ST T2 | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | 50 | 86% | | |
| NAL13026-243 | 156-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8400 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-244 | 156-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 67-64-1 | Acetone | 110000 | D | ug/L | 10000 | 1556.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8403 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 78-93-3 | 2-Butanone | 59000 | D | ug/L | 10000 | 166.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8403 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 71-43-2 | Benzene | 190 | | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 108-88-3 | Toluene | 680 | | ug/L | 100 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2000 | | ug/L | 500 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 591-78-6 | 2-Hexanone | 1000 | | ug/L | 500 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 100-41-4 | Ethylbenzene | 2100 | | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 108-90-7 | Chlorobenzene | 88 | J | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | XYLMP | p&m-Xylene | 5100 | | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 95-47-6 | o-Xylene | 2400 | | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 100-42-5 | Styrene | 330 | | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 1500 | | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 1200 | | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-244 | 156-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 2600 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 10000 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 410 | | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 51000 | D | ug/L | 2000 | 254.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8403 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 9600 | | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 104-51-8 | n-Butylbenzene | 1400 | | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 91-20-3 | Naphthalene | 8600 | | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | | | | |
| NAL13026-244 | 156-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 55 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | 50 | 110% | | |
| NAL13026-244 | 156-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | 50 | 104% | | |
| NAL13026-244 | 156-ST T3 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | 50 | 88% | | |
| NAL13026-244 | 156-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 44 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8402 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-245 | 156-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 67-64-1 | Acetone | 79000 | D | ug/L | 10000 | 1556.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8405 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 78-93-3 | 2-Butanone | 46000 | D | ug/L | 10000 | 166.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8405 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 71-43-2 | Benzene | 11 | J | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 108-88-3 | Toluene | 34 | J | ug/L | 100 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1100 | | ug/L | 500 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 591-78-6 | 2-Hexanone | 680 | | ug/L | 500 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 100-41-4 | Ethylbenzene | 77 | J | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | XYLMP | p&m-Xylene | 180 | J | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 95-47-6 | o-Xylene | 85 | J | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 100-42-5 | Styrene | 48 | J | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 62 | J | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 55 | J | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-245 | 156-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 110 | J | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 360 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | 35 | J | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 1500 | | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 420 | | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 104-51-8 | n-Butylbenzene | 110 | J | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 91-20-3 | Naphthalene | 740 | | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | | | | |
| NAL13026-245 | 156-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | 50 | 108% | | |
| NAL13026-245 | 156-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | 50 | 104% | | |
| NAL13026-245 | 156-ST T4 | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | 50 | 84% | | |
| NAL13026-245 | 156-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8404 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-246 | OB-155 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 67-64-1 | Acetone | 55000 | D | ug/L | 10000 | 1556.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8407 | | | | |
| NAL13026-246 | OB-155 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 78-93-3 | 2-Butanone | 27000 | D | ug/L | 10000 | 166.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8407 | | | | |
| NAL13026-246 | OB-155 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 450 | J | ug/L | 500 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 591-78-6 | 2-Hexanone | 300 | J | ug/L | 500 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 100-42-5 | Styrene | 30 | J | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-246 | OB-155 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 99-87-6 | p-Isopropltoluene | 160 | J | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 91-20-3 | Naphthalene | 400 | J | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | | | | |
| NAL13026-246 | OB-155 | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | 50 | 106% | | |
| NAL13026-246 | OB-155 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | 50 | 102% | | |
| NAL13026-246 | OB-155 | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | 50 | 86% | | |
| NAL13026-246 | OB-155 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8406 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513CCVA | J052513CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 45 | | ug/L | 5 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 90% | | |
| J052513CCVA | J052513CCVA | ORG | 74-87-3 | Chloromethane | 59 | | ug/L | 5 | 0.43 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 118% | | |
| J052513CCVA | J052513CCVA | ORG | 75-01-4 | Vinyl chloride | 53 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 74-83-9 | Bromomethane | 54 | | ug/L | 5 | 0.50 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 108% | | |
| J052513CCVA | J052513CCVA | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 102% | | |
| J052513CCVA | J052513CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 49 | | ug/L | 1 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 75-09-2 | Methylene chloride | 54 | | ug/L | 5 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 108% | | |
| J052513CCVA | J052513CCVA | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 114% | | |
| J052513CCVA | J052513CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 53 | | ug/L | 1 | 0.53 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 110% | | |
| J052513CCVA | J052513CCVA | ORG | 74-97-5 | Bromochloromethane | 57 | | ug/L | 10 | 0.81 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 114% | | |
| J052513CCVA | J052513CCVA | ORG | 67-66-3 | Chloroform | 53 | | ug/L | 2 | 0.41 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 52 | | ug/L | 1 | 0.16 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 104% | | |
| J052513CCVA | J052513CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 108% | | |
| J052513CCVA | J052513CCVA | ORG | 56-23-5 | Carbon tetrachloride | 52 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 104% | | |
| J052513CCVA | J052513CCVA | ORG | 71-43-2 | Benzene | 54 | | ug/L | 1 | 0.14 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 108% | | |
| J052513CCVA | J052513CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 52 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 104% | | |
| J052513CCVA | J052513CCVA | ORG | 79-01-6 | Trichloroethene | 55 | | ug/L | 1 | 0.36 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 110% | | |
| J052513CCVA | J052513CCVA | ORG | 74-95-3 | Dibromomethane | 55 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 110% | | |
| J052513CCVA | J052513CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 58 | | ug/L | 1 | 0.18 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 116% | | |
| J052513CCVA | J052513CCVA | ORG | 75-27-4 | Bromodichloromethane | 51 | | ug/L | 2 | 0.12 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 102% | | |
| J052513CCVA | J052513CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 108-88-3 | Toluene | 51 | | ug/L | 5 | 0.74 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 102% | | |
| J052513CCVA | J052513CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 116% | | |
| J052513CCVA | J052513CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 53 | | ug/L | 1 | 0.31 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |
| J052513CCVA | J052513CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 104% | | |
| J052513CCVA | J052513CCVA | ORG | 124-48-1 | Dibromochloromethane | 53 | | ug/L | 5 | 0.69 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 53 | | ug/L | 2 | 0.30 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 106% | | |
| J052513CCVA | J052513CCVA | ORG | 591-78-6 | 2-Hexanone | 51 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 102% | | |
| J052513CCVA | J052513CCVA | ORG | 100-41-4 | Ethylbenzene | 48 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 108-90-7 | Chlorobenzene | 49 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | XYLMP | p&m-Xylene | 95 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 100 | 95% | | |
| J052513CCVA | J052513CCVA | ORG | 95-47-6 | o-Xylene | 47 | | ug/L | 1 | 0.13 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |
| J052513CCVA | J052513CCVA | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 98-82-8 | Isopropylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513CCVA | J052513CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 90% | | |
| J052513CCVA | J052513CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 47 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |
| J052513CCVA | J052513CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 92% | | |
| J052513CCVA | J052513CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 92% | | |
| J052513CCVA | J052513CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 96% | | |
| J052513CCVA | J052513CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |
| J052513CCVA | J052513CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 46 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 92% | | |
| J052513CCVA | J052513CCVA | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 88% | | |
| J052513CCVA | J052513CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 40 | | ug/L | 5 | 1.59 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 80% | | |
| J052513CCVA | J052513CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 46 | | ug/L | 5 | 0.65 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 92% | | |
| J052513CCVA | J052513CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 98% | | |
| J052513CCVA | J052513CCVA | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 84% | | |
| J052513CCVA | J052513CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 44 | | ug/L | 5 | 0.23 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 88% | | |
| J052513CCVA | J052513CCVA | STD | 1868-53-7 | Dibromofluoromethane | 45 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 90% | | |
| J052513CCVA | J052513CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 42 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 84% | | |
| J052513CCVA | J052513CCVA | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 86% | | |
| J052513CCVA | J052513CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8396 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513MBKA | J052513MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513MBKA | J052513MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | | | | |
| J052513MBKA | J052513MBKA | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | 50 | 106% | | |
| J052513MBKA | J052513MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | 50 | 104% | | |
| J052513MBKA | J052513MBKA | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | 50 | 86% | | |
| J052513MBKA | J052513MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8397 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513ALCS | J052513ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 52 | | ug/L | 5 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 104% | | |
| J052513ALCS | J052513ALCS | ORG | 74-87-3 | Chloromethane | 51 | | ug/L | 5 | 0.43 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 75-01-4 | Vinyl chloride | 56 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 112% | | |
| J052513ALCS | J052513ALCS | ORG | 74-83-9 | Bromomethane | 77 | | ug/L | 5 | 0.50 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 154% | | |
| J052513ALCS | J052513ALCS | ORG | 75-00-3 | Chloroethane | 62 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 63 | | ug/L | 5 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 126% | | |
| J052513ALCS | J052513ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 56 | | ug/L | 1 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 112% | | |
| J052513ALCS | J052513ALCS | ORG | 75-09-2 | Methylene chloride | 64 | | ug/L | 5 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 128% | | |
| J052513ALCS | J052513ALCS | ORG | 67-64-1 | Acetone | 64 | | ug/L | 10 | 1.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 128% | | |
| J052513ALCS | J052513ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 116% | | |
| J052513ALCS | J052513ALCS | ORG | 1634-04-4 | MTBE | 55 | | ug/L | 5 | 0.61 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 110% | | |
| J052513ALCS | J052513ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 55 | | ug/L | 1 | 0.53 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 110% | | |
| J052513ALCS | J052513ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 60 | | ug/L | 1 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 120% | | |
| J052513ALCS | J052513ALCS | ORG | 74-97-5 | Bromochloromethane | 64 | | ug/L | 10 | 0.81 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 128% | | |
| J052513ALCS | J052513ALCS | ORG | 67-66-3 | Chloroform | 62 | | ug/L | 2 | 0.41 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 62 | | ug/L | 1 | 0.16 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 108% | | |
| J052513ALCS | J052513ALCS | ORG | 56-23-5 | Carbon tetrachloride | 62 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 71-43-2 | Benzene | 61 | | ug/L | 1 | 0.14 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 122% | | |
| J052513ALCS | J052513ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 61 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 122% | | |
| J052513ALCS | J052513ALCS | ORG | 79-01-6 | Trichloroethene | 62 | | ug/L | 1 | 0.36 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 74-95-3 | Dibromomethane | 62 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 124% | | |
| J052513ALCS | J052513ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 65 | | ug/L | 1 | 0.18 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 130% | | |
| J052513ALCS | J052513ALCS | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 108% | | |
| J052513ALCS | J052513ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 56 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 112% | | |
| J052513ALCS | J052513ALCS | ORG | 108-88-3 | Toluene | 53 | | ug/L | 5 | 0.74 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 106% | | |
| J052513ALCS | J052513ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 116% | | |
| J052513ALCS | J052513ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 56 | | ug/L | 1 | 0.31 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 112% | | |
| J052513ALCS | J052513ALCS | ORG | 127-18-4 | Tetrachloroethene | 50 | | ug/L | 1 | 0.49 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 106% | | |
| J052513ALCS | J052513ALCS | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 112% | | |
| J052513ALCS | J052513ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 54 | | ug/L | 2 | 0.30 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 108% | | |
| J052513ALCS | J052513ALCS | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 104% | | |
| J052513ALCS | J052513ALCS | ORG | 100-41-4 | Ethylbenzene | 51 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 108-90-7 | Chlorobenzene | 53 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 106% | | |
| J052513ALCS | J052513ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.19 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 106% | | |
| J052513ALCS | J052513ALCS | ORG | XYLMP | p&m-Xylene | 100 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 100 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 95-47-6 | o-Xylene | 51 | | ug/L | 1 | 0.13 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 100-42-5 | Styrene | 50 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 75-25-2 | Bromoform | 49 | | ug/L | 2 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 98-82-8 | Isopropylbenzene | 51 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 103-65-1 | n-Propylbenzene | 51 | | ug/L | 2 | 0.27 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513ALCS | J052513ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 96% | | |
| J052513ALCS | J052513ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 135-98-8 | sec-Butylbenzene | 51 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 102% | | |
| J052513ALCS | J052513ALCS | ORG | 99-87-6 | p-Isopropltoluene | 50 | | ug/L | 2 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 96% | | |
| J052513ALCS | J052513ALCS | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 84% | | |
| J052513ALCS | J052513ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 98% | | |
| J052513ALCS | J052513ALCS | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 86% | | |
| J052513ALCS | J052513ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 90% | | |
| J052513ALCS | J052513ALCS | STD | 1868-53-7 | Dibromofluoromethane | 53 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 106% | | |
| J052513ALCS | J052513ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |
| J052513ALCS | J052513ALCS | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 86% | | |
| J052513ALCS | J052513ALCS | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8408 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513ALCD | J052513ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 56 | | ug/L | 5 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 112% | 7% | |
| J052513ALCD | J052513ALCD | ORG | 74-87-3 | Chloromethane | 50 | | ug/L | 5 | 0.43 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 100% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 75-01-4 | Vinyl chloride | 59 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 118% | 5% | |
| J052513ALCD | J052513ALCD | ORG | 74-83-9 | Bromomethane | 89 | | ug/L | 5 | 0.50 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 178% | 14% | |
| J052513ALCD | J052513ALCD | ORG | 75-00-3 | Chloroethane | 79 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 158% | 24% | |
| J052513ALCD | J052513ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 66 | | ug/L | 5 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 132% | 5% | |
| J052513ALCD | J052513ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 57 | | ug/L | 1 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 114% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 75-09-2 | Methylene chloride | 66 | | ug/L | 5 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 132% | 3% | |
| J052513ALCD | J052513ALCD | ORG | 67-64-1 | Acetone | 68 | | ug/L | 10 | 1.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 136% | 6% | |
| J052513ALCD | J052513ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 58 | | ug/L | 1 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 116% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 1634-04-4 | MTBE | 58 | | ug/L | 5 | 0.61 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 116% | 5% | |
| J052513ALCD | J052513ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 56 | | ug/L | 1 | 0.53 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 112% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 122% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 74-97-5 | Bromochloromethane | 63 | | ug/L | 10 | 0.81 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 126% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 67-66-3 | Chloroform | 63 | | ug/L | 2 | 0.41 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 126% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 62 | | ug/L | 1 | 0.16 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 124% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 78-93-3 | 2-Butanone | 59 | | ug/L | 1 | 0.17 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 118% | 9% | |
| J052513ALCD | J052513ALCD | ORG | 56-23-5 | Carbon tetrachloride | 62 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 124% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 71-43-2 | Benzene | 60 | | ug/L | 1 | 0.14 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 120% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 65 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 130% | 6% | |
| J052513ALCD | J052513ALCD | ORG | 79-01-6 | Trichloroethene | 63 | | ug/L | 1 | 0.36 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 126% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 74-95-3 | Dibromomethane | 64 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 128% | 3% | |
| J052513ALCD | J052513ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 64 | | ug/L | 1 | 0.18 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 128% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 75-27-4 | Bromodichloromethane | 54 | | ug/L | 2 | 0.12 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 108% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 55 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 110% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 108-88-3 | Toluene | 52 | | ug/L | 5 | 0.74 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 104% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 56 | | ug/L | 1 | 0.21 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 112% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 54 | | ug/L | 1 | 0.31 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 108% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 127-18-4 | Tetrachloroethene | 49 | | ug/L | 1 | 0.49 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 106% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 124-48-1 | Dibromochloromethane | 56 | | ug/L | 5 | 0.69 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 112% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 110% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 591-78-6 | 2-Hexanone | 54 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 108% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 100-41-4 | Ethylbenzene | 50 | | ug/L | 1 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 100% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 108-90-7 | Chlorobenzene | 51 | | ug/L | 1 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 102% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.19 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 106% | 0% | |
| J052513ALCD | J052513ALCD | ORG | XYLMP | p&m-Xylene | 98 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 100 | 98% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 95-47-6 | o-Xylene | 49 | | ug/L | 1 | 0.13 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 100% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052513ALCD | J052513ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 102% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 94% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 135-98-8 | sec-Butylbenzene | 49 | | ug/L | 2 | 0.32 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 98% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 92% | 6% | |
| J052513ALCD | J052513ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 48 | | ug/L | 2 | 0.26 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 94% | 4% | |
| J052513ALCD | J052513ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 44 | | ug/L | 5 | 1.59 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 88% | 5% | |
| J052513ALCD | J052513ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 45 | | ug/L | 5 | 0.65 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 90% | 11% | |
| J052513ALCD | J052513ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 2% | |
| J052513ALCD | J052513ALCD | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 86% | 0% | |
| J052513ALCD | J052513ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 45 | | ug/L | 5 | 0.23 | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 90% | 0% | |
| J052513ALCD | J052513ALCD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 108% | 2% | |
| J052513ALCD | J052513ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 96% | 4% | |
| J052513ALCD | J052513ALCD | STD | 2037-26-5 | Toluene d8 | 42 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 84% | 2% | |
| J052513ALCD | J052513ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/25/2013 | 5/25/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8409 | 50 | 100% | 0% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242MS | 156-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | 5100 | | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 102% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 74-87-3 | Chloromethane | 4800 | | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-01-4 | Vinyl chloride | 5500 | | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 110% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 74-83-9 | Bromomethane | 8900 | | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 178% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-00-3 | Chloroethane | 8400 | | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 168% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | 6200 | | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 124% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | 5300 | | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 106% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-09-2 | Methylene chloride | 6100 | | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 122% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 67-64-1 | Acetone | 75000 | | ug/L | 1000 | 155.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | -40% | | 77000 |
| NAL13026-242MS | 156-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5500 | | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 110% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 104% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | 5200 | | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 104% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5800 | | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 116% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 74-97-5 | Bromochloromethane | 5800 | | ug/L | 1000 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 116% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 67-66-3 | Chloroform | 5900 | | ug/L | 200 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 118% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 116% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 78-93-3 | 2-Butanone | 38000 | | ug/L | 100 | 16.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | -20% | | 39000 |
| NAL13026-242MS | 156-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | 5900 | | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 118% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 71-43-2 | Benzene | 5600 | | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 112% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | 5800 | | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 116% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 79-01-6 | Trichloroethene | 5900 | | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 118% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 74-95-3 | Dibromomethane | 5800 | | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 116% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | 6000 | | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 120% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 75-27-4 | Bromodichloromethane | 5300 | | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 106% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5300 | | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 106% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 108-88-3 | Toluene | 5200 | | ug/L | 500 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 104% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5300 | | ug/L | 100 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 80% | | 1300 |
| NAL13026-242MS | 156-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5100 | | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 102% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 127-18-4 | Tetrachloroethene | 4700 | | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 104% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 124-48-1 | Dibromochloromethane | 5400 | | ug/L | 500 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 108% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 104% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 591-78-6 | 2-Hexanone | 4400 | | ug/L | 200 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 76% | | 580 |
| NAL13026-242MS | 156-ST T1 | ORG | 100-41-4 | Ethylbenzene | 4900 | | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 98% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 108-90-7 | Chlorobenzene | 5000 | | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 100% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5100 | | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 102% | | |
| NAL13026-242MS | 156-ST T1 | ORG | XYLMP | p&m-Xylene | 9600 | | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 10000 | 96% | | 35 |
| NAL13026-242MS | 156-ST T1 | ORG | 95-47-6 | o-Xylene | 4800 | | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | 22 |
| NAL13026-242MS | 156-ST T1 | ORG | 100-42-5 | Styrene | 4700 | | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 93% | | 36 |
| NAL13026-242MS | 156-ST T1 | ORG | 75-25-2 | Bromoform | 4800 | | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 4900 | | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 98% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242MS | 156-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 4700 | | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4800 | | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 95% | | 37 |
| NAL13026-242MS | 156-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 96% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 93% | | 150 |
| NAL13026-242MS | 156-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 98% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4700 | | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 5000 | | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 84% | | 790 |
| NAL13026-242MS | 156-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 90% | | 220 |
| NAL13026-242MS | 156-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4600 | | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 92% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 104-51-8 | n-Butylbenzene | 4700 | | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4200 | | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 84% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | 4700 | | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4700 | | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 94% | | |
| NAL13026-242MS | 156-ST T1 | ORG | 91-20-3 | Naphthalene | 4500 | | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 79% | | 570 |
| NAL13026-242MS | 156-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4400 | | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 5000 | 88% | | |
| NAL13026-242MS | 156-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 50 | 104% | | |
| NAL13026-242MS | 156-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 50 | 94% | | |
| NAL13026-242MS | 156-ST T1 | STD | 2037-26-5 | Toluene d8 | 43 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 50 | 86% | | |
| NAL13026-242MS | 156-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8410 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242MSD | 156-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | 5700 | | ug/L | 500 | 29.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 114% | 11% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 74-87-3 | Chloromethane | 4700 | | ug/L | 500 | 43.07 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 94% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-01-4 | Vinyl chloride | 5600 | | ug/L | 200 | 31.86 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 112% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 74-83-9 | Bromomethane | 8400 | | ug/L | 500 | 50.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 168% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-00-3 | Chloroethane | 7000 | | ug/L | 500 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 140% | 18% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | 5900 | | ug/L | 500 | 19.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 118% | 5% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | 5000 | | ug/L | 100 | 47.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 100% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-09-2 | Methylene chloride | 5700 | | ug/L | 500 | 26.46 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 114% | 7% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 67-64-1 | Acetone | 75000 | | ug/L | 1000 | 155.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | -40% | 0% | 77000 |
| NAL13026-242MSD | 156-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 6100 | | ug/L | 100 | 55.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 122% | 10% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 1634-04-4 | MTBE | 6100 | | ug/L | 500 | 61.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 122% | 16% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | 5700 | | ug/L | 100 | 52.66 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 114% | 9% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5700 | | ug/L | 100 | 32.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 114% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 74-97-5 | Bromochloromethane | 6000 | | ug/L | 1000 | 81.18 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 120% | 3% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 67-66-3 | Chloroform | 6100 | | ug/L | 200 | 41.37 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 122% | 3% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5800 | | ug/L | 100 | 15.73 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 116% | 0% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 78-93-3 | 2-Butanone | 44000 | | ug/L | 100 | 16.65 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 100% | 15% | 39000 |
| NAL13026-242MSD | 156-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | 5900 | | ug/L | 100 | 27.64 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 118% | 0% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 71-43-2 | Benzene | 5700 | | ug/L | 100 | 13.53 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 114% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | 6100 | | ug/L | 100 | 20.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 122% | 5% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 79-01-6 | Trichloroethene | 5900 | | ug/L | 100 | 36.33 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 118% | 0% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 74-95-3 | Dibromomethane | 6100 | | ug/L | 200 | 32.20 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 122% | 5% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | 5900 | | ug/L | 100 | 18.17 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 118% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-27-4 | Bromodichloromethane | 5200 | | ug/L | 200 | 11.58 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 104% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5200 | | ug/L | 100 | 25.01 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 104% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 108-88-3 | Toluene | 5100 | | ug/L | 500 | 74.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 102% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5700 | | ug/L | 100 | 20.96 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 88% | 7% | 1300 |
| NAL13026-242MSD | 156-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 5400 | | ug/L | 100 | 31.15 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 108% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 90% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 104% | 0% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 124-48-1 | Dibromochloromethane | 5500 | | ug/L | 500 | 68.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 110% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | 5400 | | ug/L | 200 | 29.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 108% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 591-78-6 | 2-Hexanone | 4700 | | ug/L | 200 | 26.49 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 82% | 7% | 580 |
| NAL13026-242MSD | 156-ST T1 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 92% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 108-90-7 | Chlorobenzene | 4800 | | ug/L | 100 | 27.52 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 96% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 96% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | XYLMP | p&m-Xylene | 9000 | | ug/L | 200 | 26.14 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 10000 | 90% | 6% | 35 |
| NAL13026-242MSD | 156-ST T1 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 94% | 2% | 22 |
| NAL13026-242MSD | 156-ST T1 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 91% | 2% | 36 |
| NAL13026-242MSD | 156-ST T1 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 100% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 94% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 4600 | | ug/L | 200 | 27.00 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 92% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-242MSD | 156-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5100 | | ug/L | 200 | 29.16 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 102% | 8% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5000 | | ug/L | 200 | 29.47 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 100% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 91% | 4% | 37 |
| NAL13026-242MSD | 156-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | 4600 | | ug/L | 200 | 32.61 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 92% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 91% | 2% | 150 |
| NAL13026-242MSD | 156-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 92% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 4800 | | ug/L | 200 | 22.21 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 96% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 80% | 4% | 790 |
| NAL13026-242MSD | 156-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4700 | | ug/L | 200 | 33.03 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 90% | 0% | 220 |
| NAL13026-242MSD | 156-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 4900 | | ug/L | 200 | 26.38 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 98% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 104-51-8 | n-Butylbenzene | 4500 | | ug/L | 500 | 27.81 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 90% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4900 | | ug/L | 500 | 159.11 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 98% | 15% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | 4800 | | ug/L | 500 | 65.42 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 96% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 100% | 6% | 0 |
| NAL13026-242MSD | 156-ST T1 | ORG | 91-20-3 | Naphthalene | 4900 | | ug/L | 500 | 56.04 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 87% | 9% | 570 |
| NAL13026-242MSD | 156-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4600 | | ug/L | 500 | 23.28 | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 5000 | 92% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 50 | 108% | 4% | 0 |
| NAL13026-242MSD | 156-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 50 | 96% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | STD | 2037-26-5 | Toluene d8 | 44 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 50 | 88% | 2% | 0 |
| NAL13026-242MSD | 156-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/25/2013 | 5/25/2013 | 5/25/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8411 | 50 | 98% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247 | OB 158 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 67-64-1 | Acetone | 42000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8432 | | | | |
| NAL13026-247 | OB 158 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 78-93-3 | 2-Butanone | 24000 | D | ug/L | 10000 | 811.80 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8432 | | | | |
| NAL13026-247 | OB 158 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 71-43-2 | Benzene | 20 | J | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 108-88-3 | Toluene | 20 | J | ug/L | 100 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 550 | | ug/L | 500 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 95-47-6 | o-Xylene | 26 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 100-42-5 | Styrene | 19 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 98-82-8 | Isopropylbenzene | 38 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 103-65-1 | n-Propylbenzene | 67 | J | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247 | OB 158 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 65 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 260 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 135-98-8 | sec-Butylbenzene | 190 | J | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 99-87-6 | p-Isopropltoluene | 1800 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 170 | J | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 104-51-8 | n-Butylbenzene | 110 | J | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 91-20-3 | Naphthalene | 850 | | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | | | | |
| NAL13026-247 | OB 158 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | 50 | 98% | | |
| NAL13026-247 | OB 158 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | 50 | 100% | | |
| NAL13026-247 | OB 158 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | 50 | 100% | | |
| NAL13026-247 | OB 158 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8426 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 67-64-1 | Acetone | 54000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8428 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 78-93-3 | 2-Butanone | 36000 | D | ug/L | 10000 | 166.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8428 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 71-43-2 | Benzene | 58 | J | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 108-88-3 | Toluene | 16 | J | ug/L | 100 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1500 | | ug/L | 500 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | XYLMP | p&m-Xylene | 360 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 95-47-6 | o-Xylene | 23 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 100-42-5 | Styrene | 17 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 98-82-8 | Isopropylbenzene | 11 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-248 | OB-161-ST T-1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 84 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 99-87-6 | p-Isopropltoluene | 340 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 38 | J | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 91-20-3 | Naphthalene | 340 | J | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | | | | |
| NAL13026-248 | OB-161-ST T-1 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | 50 | 100% | | |
| NAL13026-248 | OB-161-ST T-1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | 50 | 102% | | |
| NAL13026-248 | OB-161-ST T-1 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | 50 | 96% | | |
| NAL13026-248 | OB-161-ST T-1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8422 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8429 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 78-93-3 | 2-Butanone | 33000 | D | ug/L | 10000 | 166.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8429 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 71-43-2 | Benzene | 110 | | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 108-88-3 | Toluene | 70 | J | ug/L | 100 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1200 | | ug/L | 500 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 100-41-4 | Ethylbenzene | 63 | J | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | XYLMP | p&m-Xylene | 480 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 95-47-6 | o-Xylene | 76 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 100-42-5 | Styrene | 26 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 98-82-8 | Isopropylbenzene | 28 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 103-65-1 | n-Propylbenzene | 58 | J | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-249 | OB-161-ST T-2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 180 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 99-87-6 | p-Isopropltoluene | 530 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 160 | J | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 91-20-3 | Naphthalene | 520 | | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | | | | |
| NAL13026-249 | OB-161-ST T-2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | 50 | 98% | | |
| NAL13026-249 | OB-161-ST T-2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | 50 | 98% | | |
| NAL13026-249 | OB-161-ST T-2 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | 50 | 98% | | |
| NAL13026-249 | OB-161-ST T-2 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8423 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 67-64-1 | Acetone | 50000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8430 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 78-93-3 | 2-Butanone | 30000 | D | ug/L | 10000 | 166.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8430 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 71-43-2 | Benzene | 56 | J | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 108-88-3 | Toluene | 30 | J | ug/L | 100 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 990 | | ug/L | 500 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 100-41-4 | Ethylbenzene | 64 | J | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | XYLMP | p&m-Xylene | 500 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 95-47-6 | o-Xylene | 90 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 100-42-5 | Styrene | 23 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 98-82-8 | Isopropylbenzene | 50 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 103-65-1 | n-Propylbenzene | 78 | J | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-250 | OB-161-ST T-3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 400 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 99-87-6 | p-Isopropltoluene | 1500 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 390 | | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 104-51-8 | n-Butylbenzene | 78 | J | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 91-20-3 | Naphthalene | 650 | | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | | | | |
| NAL13026-250 | OB-161-ST T-3 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | 50 | 98% | | |
| NAL13026-250 | OB-161-ST T-3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | 50 | 98% | | |
| NAL13026-250 | OB-161-ST T-3 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | 50 | 98% | | |
| NAL13026-250 | OB-161-ST T-3 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8424 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 67-64-1 | Acetone | 58000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8431 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 78-93-3 | 2-Butanone | 39000 | D | ug/L | 10000 | 166.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8431 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 71-43-2 | Benzene | 31 | J | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 108-88-3 | Toluene | 19 | J | ug/L | 100 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1400 | | ug/L | 500 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 95-47-6 | o-Xylene | 22 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 100-42-5 | Styrene | 24 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 98-82-8 | Isopropylbenzene | 20 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 103-65-1 | n-Propylbenzene | 58 | J | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-251 | OB-161-ST T-4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 135-98-8 | sec-Butylbenzene | 24 | J | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 99-87-6 | p-Isopropltoluene | 180 | J | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 91-20-3 | Naphthalene | 250 | J | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | | | | |
| NAL13026-251 | OB-161-ST T-4 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | 50 | 100% | | |
| NAL13026-251 | OB-161-ST T-4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | 50 | 98% | | |
| NAL13026-251 | OB-161-ST T-4 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | 50 | 98% | | |
| NAL13026-251 | OB-161-ST T-4 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8425 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-252 | OB-160 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 67-64-1 | Acetone | 37000 | D | ug/L | 10000 | 1556 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8433 | | | | |
| NAL13026-252 | OB-160 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 78-93-3 | 2-Butanone | 22000 | D | ug/L | 10000 | 166.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8433 | | | | |
| NAL13026-252 | OB-160 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 71-43-2 | Benzene | 65 | J | ug/L | 100 | 13.53 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 108-88-3 | Toluene | 53 | J | ug/L | 100 | 74.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 680 | | ug/L | 500 | 20.96 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 108-90-7 | Chlorobenzene | 45 | J | ug/L | 100 | 27.52 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | XYLMP | p&m-Xylene | 420 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 95-47-6 | o-Xylene | 35 | J | ug/L | 100 | 12.90 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 100-42-5 | Styrene | 49 | J | ug/L | 100 | 20.23 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 98-82-8 | Isopropylbenzene | 36 | J | ug/L | 200 | 20.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-252 | OB-160 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 98-06-6 | tert-Butylbenzene | 15 | J | ug/L | 200 | 32.61 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 35 | J | ug/L | 200 | 20.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 135-98-8 | sec-Butylbenzene | 37 | J | ug/L | 200 | 32.34 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 99-87-6 | p-Isopropltoluene | 110 | J | ug/L | 200 | 25.48 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 104-51-8 | n-Butylbenzene | 59 | J | ug/L | 500 | 27.81 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 91-20-3 | Naphthalene | 290 | J | ug/L | 500 | 56.04 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | | | | |
| NAL13026-252 | OB-160 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | 50 | 100% | | |
| NAL13026-252 | OB-160 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | 50 | 98% | | |
| NAL13026-252 | OB-160 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | 50 | 98% | | |
| NAL13026-252 | OB-160 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/26/2013 | 5/26/2013 | 5/26/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8427 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613CCVA | J052613CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 53 | | ug/L | 5 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 106% | | |
| J052613CCVA | J052613CCVA | ORG | 74-87-3 | Chloromethane | 44 | | ug/L | 5 | 0.43 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 88% | | |
| J052613CCVA | J052613CCVA | ORG | 75-01-4 | Vinyl chloride | 48 | | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 74-83-9 | Bromomethane | 59 | | ug/L | 5 | 0.50 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 118% | | |
| J052613CCVA | J052613CCVA | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 104% | | |
| J052613CCVA | J052613CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 61 | | ug/L | 1 | 0.47 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 122% | | |
| J052613CCVA | J052613CCVA | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 104% | | |
| J052613CCVA | J052613CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 61 | | ug/L | 1 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 122% | | |
| J052613CCVA | J052613CCVA | ORG | 1634-04-4 | MTBE | 53 | | ug/L | 5 | 0.61 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 106% | | |
| J052613CCVA | J052613CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 51 | | ug/L | 1 | 0.53 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 56 | | ug/L | 1 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 112% | | |
| J052613CCVA | J052613CCVA | ORG | 74-97-5 | Bromochloromethane | 54 | | ug/L | 10 | 0.81 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 108% | | |
| J052613CCVA | J052613CCVA | ORG | 67-66-3 | Chloroform | 48 | | ug/L | 2 | 0.41 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 53 | | ug/L | 1 | 0.16 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 106% | | |
| J052613CCVA | J052613CCVA | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 106% | | |
| J052613CCVA | J052613CCVA | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 94% | | |
| J052613CCVA | J052613CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 79-01-6 | Trichloroethene | 50 | | ug/L | 1 | 0.36 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 74-95-3 | Dibromomethane | 50 | | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 94% | | |
| J052613CCVA | J052613CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 90% | | |
| J052613CCVA | J052613CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 1 | 0.21 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 108% | | |
| J052613CCVA | J052613CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 127-18-4 | Tetrachloroethene | 39 | | ug/L | 1 | 0.49 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 78% | | |
| J052613CCVA | J052613CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 47 | | ug/L | 2 | 0.30 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 94% | | |
| J052613CCVA | J052613CCVA | ORG | 591-78-6 | 2-Hexanone | 62 | | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 124% | | |
| J052613CCVA | J052613CCVA | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 86% | | |
| J052613CCVA | J052613CCVA | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 84% | | |
| J052613CCVA | J052613CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 88% | | |
| J052613CCVA | J052613CCVA | ORG | XYLMP | p&m-Xylene | 87 | | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 100 | 87% | | |
| J052613CCVA | J052613CCVA | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 84% | | |
| J052613CCVA | J052613CCVA | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 98-82-8 | Isopropylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613CCVA | J052613CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 135-98-8 | sec-Butylbenzene | 50 | | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 100% | | |
| J052613CCVA | J052613CCVA | ORG | 99-87-6 | p-Isopropltoluene | 49 | | ug/L | 2 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 104% | | |
| J052613CCVA | J052613CCVA | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 98% | | |
| J052613CCVA | J052613CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 112% | | |
| J052613CCVA | J052613CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | ORG | 91-20-3 | Naphthalene | 45 | | ug/L | 5 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 90% | | |
| J052613CCVA | J052613CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 94% | | |
| J052613CCVA | J052613CCVA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 102% | | |
| J052613CCVA | J052613CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 96% | | |
| J052613CCVA | J052613CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8420 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613MBKA | J052613MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613MBKA | J052613MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | | | | |
| J052613MBKA | J052613MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | 50 | 102% | | |
| J052613MBKA | J052613MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | 50 | 96% | | |
| J052613MBKA | J052613MBKA | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | 50 | 94% | | |
| J052613MBKA | J052613MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/26/2013 | 5/26/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8421 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613ALCS | J052613ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 55 | | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 110% | | |
| J052613ALCS | J052613ALCS | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 82% | | |
| J052613ALCS | J052613ALCS | ORG | 75-01-4 | Vinyl chloride | 47 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 74-83-9 | Bromomethane | 52 | | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 104% | | |
| J052613ALCS | J052613ALCS | ORG | 75-00-3 | Chloroethane | 55 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 110% | | |
| J052613ALCS | J052613ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | ORG | 75-09-2 | Methylene chloride | 48 | | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 67-64-1 | Acetone | 53 | | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 106% | | |
| J052613ALCS | J052613ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 67-66-3 | Chloroform | 43 | | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 86% | | |
| J052613ALCS | J052613ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 78-93-3 | 2-Butanone | 50 | | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | ORG | 56-23-5 | Carbon tetrachloride | 49 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 71-43-2 | Benzene | 48 | | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 79-01-6 | Trichloroethene | 45 | | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 90% | | |
| J052613ALCS | J052613ALCS | ORG | 74-95-3 | Dibromomethane | 45 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 90% | | |
| J052613ALCS | J052613ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 92% | | |
| J052613ALCS | J052613ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 88% | | |
| J052613ALCS | J052613ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 51 | | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 127-18-4 | Tetrachloroethene | 41 | | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 82% | | |
| J052613ALCS | J052613ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 92% | | |
| J052613ALCS | J052613ALCS | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | ORG | 591-78-6 | 2-Hexanone | 53 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 106% | | |
| J052613ALCS | J052613ALCS | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 88% | | |
| J052613ALCS | J052613ALCS | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 86% | | |
| J052613ALCS | J052613ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | XYLMP | p&m-Xylene | 94 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 100 | 94% | | |
| J052613ALCS | J052613ALCS | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 88% | | |
| J052613ALCS | J052613ALCS | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 96% | | |
| J052613ALCS | J052613ALCS | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 92% | | |
| J052613ALCS | J052613ALCS | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613ALCS | J052613ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 90% | | |
| J052613ALCS | J052613ALCS | ORG | 98-06-6 | tert-Butylbenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 92% | | |
| J052613ALCS | J052613ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 90% | | |
| J052613ALCS | J052613ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 102% | | |
| J052613ALCS | J052613ALCS | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |
| J052613ALCS | J052613ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 44 | | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 88% | | |
| J052613ALCS | J052613ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 92% | | |
| J052613ALCS | J052613ALCS | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 86% | | |
| J052613ALCS | J052613ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 44 | | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 88% | | |
| J052613ALCS | J052613ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 100% | | |
| J052613ALCS | J052613ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8434 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613ALCD | J052613ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 54 | | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 108% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 74-87-3 | Chloromethane | 41 | | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 82% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 75-01-4 | Vinyl chloride | 47 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 74-83-9 | Bromomethane | 53 | | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 106% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 75-00-3 | Chloroethane | 55 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 110% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 48 | | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 75-09-2 | Methylene chloride | 50 | | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 67-64-1 | Acetone | 49 | | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 98% | 8% | |
| J052613ALCD | J052613ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 98% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 98% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 67-66-3 | Chloroform | 43 | | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 86% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 78-93-3 | 2-Butanone | 48 | | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 56-23-5 | Carbon tetrachloride | 51 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 92% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 92% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 79-01-6 | Trichloroethene | 47 | | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 74-95-3 | Dibromomethane | 44 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 88% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 98% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 92% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 55 | | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 110% | 8% | |
| J052613ALCD | J052613ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 127-18-4 | Tetrachloroethene | 45 | | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 90% | 9% | |
| J052613ALCD | J052613ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 591-78-6 | 2-Hexanone | 51 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 90% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 108-90-7 | Chlorobenzene | 45 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 90% | 5% | |
| J052613ALCD | J052613ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 48 | | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 0% | |
| J052613ALCD | J052613ALCD | ORG | XYLMP | p&m-Xylene | 97 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 100 | 97% | 3% | |
| J052613ALCD | J052613ALCD | ORG | 95-47-6 | o-Xylene | 45 | | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 90% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 100-42-5 | Styrene | 50 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 96% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 98-82-8 | Isopropylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 103-65-1 | n-Propylbenzene | 51 | | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052613ALCD | J052613ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 104% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 52 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 104% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 92% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 102% | 4% | |
| J052613ALCD | J052613ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 47 | | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 94% | 7% | |
| J052613ALCD | J052613ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 0% | |
| J052613ALCD | J052613ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 90% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 91-20-3 | Naphthalene | 42 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 84% | 2% | |
| J052613ALCD | J052613ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 42 | | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 84% | 5% | |
| J052613ALCD | J052613ALCD | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 98% | 2% | |
| J052613ALCD | J052613ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 0% | |
| J052613ALCD | J052613ALCD | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 0% | |
| J052613ALCD | J052613ALCD | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8435 | 50 | 100% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247MS | OB 158 | ORG | 75-71-8 | Dichlorodifluoromethane | 4800 | | ug/L | 500 | 29.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 96% | | |
| NAL13026-247MS | OB 158 | ORG | 74-87-3 | Chloromethane | 4100 | | ug/L | 500 | 43.07 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 82% | | |
| NAL13026-247MS | OB 158 | ORG | 75-01-4 | Vinyl chloride | 4500 | | ug/L | 200 | 31.86 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 90% | | |
| NAL13026-247MS | OB 158 | ORG | 74-83-9 | Bromomethane | 5300 | | ug/L | 500 | 50.04 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | |
| NAL13026-247MS | OB 158 | ORG | 75-00-3 | Chloroethane | 5900 | | ug/L | 500 | 55.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 118% | | |
| NAL13026-247MS | OB 158 | ORG | 75-69-4 | Trichlorofluoromethane | 5100 | | ug/L | 500 | 19.65 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 102% | | |
| NAL13026-247MS | OB 158 | ORG | 75-35-4 | 1,1-Dichloroethene | 19000 | | ug/L | 100 | 47.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 380% | | |
| NAL13026-247MS | OB 158 | ORG | 75-09-2 | Methylene chloride | 8700 | | ug/L | 500 | 26.46 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 174% | | |
| NAL13026-247MS | OB 158 | ORG | 67-64-1 | Acetone | 36000 | | ug/L | 1000 | 155.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | -120% | | 42000 |
| NAL13026-247MS | OB 158 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 15000 | | ug/L | 100 | 55.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 300% | | |
| NAL13026-247MS | OB 158 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | |
| NAL13026-247MS | OB 158 | ORG | 75-34-3 | 1,1-Dichloroethane | 5800 | | ug/L | 100 | 52.66 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 116% | | |
| NAL13026-247MS | OB 158 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 6600 | | ug/L | 100 | 32.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 132% | | |
| NAL13026-247MS | OB 158 | ORG | 74-97-5 | Bromochloromethane | 6400 | | ug/L | 1000 | 81.18 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 128% | | |
| NAL13026-247MS | OB 158 | ORG | 67-66-3 | Chloroform | 4700 | | ug/L | 200 | 41.37 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 94% | | |
| NAL13026-247MS | OB 158 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 6300 | | ug/L | 100 | 15.73 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 126% | | |
| NAL13026-247MS | OB 158 | ORG | 78-93-3 | 2-Butanone | 21000 | | ug/L | 100 | 16.65 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | -60% | | 24000 |
| NAL13026-247MS | OB 158 | ORG | 56-23-5 | Carbon tetrachloride | 6800 | | ug/L | 100 | 27.64 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 136% | | |
| NAL13026-247MS | OB 158 | ORG | 71-43-2 | Benzene | 6900 | | ug/L | 100 | 13.53 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 138% | | 20 |
| NAL13026-247MS | OB 158 | ORG | 107-06-2 | 1,2-Dichloroethane | 5500 | | ug/L | 100 | 20.01 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 110% | | |
| NAL13026-247MS | OB 158 | ORG | 79-01-6 | Trichloroethene | 5700 | | ug/L | 100 | 36.33 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 114% | | |
| NAL13026-247MS | OB 158 | ORG | 74-95-3 | Dibromomethane | 5200 | | ug/L | 200 | 32.20 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 104% | | |
| NAL13026-247MS | OB 158 | ORG | 78-87-5 | 1,2-Dichloropropane | 5500 | | ug/L | 100 | 18.17 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 110% | | |
| NAL13026-247MS | OB 158 | ORG | 75-27-4 | Bromodichloromethane | 5000 | | ug/L | 200 | 11.58 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 100% | | |
| NAL13026-247MS | OB 158 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5500 | | ug/L | 100 | 25.01 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 110% | | |
| NAL13026-247MS | OB 158 | ORG | 108-88-3 | Toluene | 5400 | | ug/L | 500 | 74.00 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 108% | | 20 |
| NAL13026-247MS | OB 158 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5400 | | ug/L | 100 | 20.96 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 97% | | 550 |
| NAL13026-247MS | OB 158 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 98% | | |
| NAL13026-247MS | OB 158 | ORG | 127-18-4 | Tetrachloroethene | 3800 | | ug/L | 100 | 48.56 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 76% | | |
| NAL13026-247MS | OB 158 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 98% | | |
| NAL13026-247MS | OB 158 | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 96% | | |
| NAL13026-247MS | OB 158 | ORG | 106-93-4 | 1,2-Dibromoethane | 5300 | | ug/L | 200 | 29.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | |
| NAL13026-247MS | OB 158 | ORG | 591-78-6 | 2-Hexanone | 4400 | | ug/L | 200 | 26.49 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 88% | | |
| NAL13026-247MS | OB 158 | ORG | 100-41-4 | Ethylbenzene | 4800 | | ug/L | 100 | 25.38 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 96% | | |
| NAL13026-247MS | OB 158 | ORG | 108-90-7 | Chlorobenzene | 4600 | | ug/L | 100 | 27.52 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 92% | | |
| NAL13026-247MS | OB 158 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4900 | | ug/L | 200 | 19.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 98% | | |
| NAL13026-247MS | OB 158 | ORG | XYLMP | p&m-Xylene | 10000 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 10000 | 96% | | 370 |
| NAL13026-247MS | OB 158 | ORG | 95-47-6 | o-Xylene | 4700 | | ug/L | 100 | 12.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 93% | | 26 |
| NAL13026-247MS | OB 158 | ORG | 100-42-5 | Styrene | 5300 | | ug/L | 100 | 20.23 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | 19 |
| NAL13026-247MS | OB 158 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 100% | | |
| NAL13026-247MS | OB 158 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 95% | | 38 |
| NAL13026-247MS | OB 158 | ORG | 103-65-1 | n-Propylbenzene | 5100 | | ug/L | 200 | 27.00 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 101% | | 67 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247MS | OB 158 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | |
| NAL13026-247MS | OB 158 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 106% | | |
| NAL13026-247MS | OB 158 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 99% | | 65 |
| NAL13026-247MS | OB 158 | ORG | 98-06-6 | tert-Butylbenzene | 5000 | | ug/L | 200 | 32.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 100% | | |
| NAL13026-247MS | OB 158 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5400 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 103% | | 260 |
| NAL13026-247MS | OB 158 | ORG | 135-98-8 | sec-Butylbenzene | 4700 | | ug/L | 200 | 32.34 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 90% | | 190 |
| NAL13026-247MS | OB 158 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 102% | | |
| NAL13026-247MS | OB 158 | ORG | 99-87-6 | p-Isopropltoluene | 6100 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 86% | | 1800 |
| NAL13026-247MS | OB 158 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5400 | | ug/L | 200 | 33.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 105% | | 170 |
| NAL13026-247MS | OB 158 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 104% | | |
| NAL13026-247MS | OB 158 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 102% | | 110 |
| NAL13026-247MS | OB 158 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5500 | | ug/L | 500 | 159.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 110% | | |
| NAL13026-247MS | OB 158 | ORG | 87-68-3 | Hexachlorobutadiene | 4800 | | ug/L | 500 | 65.42 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 96% | | |
| NAL13026-247MS | OB 158 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 98% | | |
| NAL13026-247MS | OB 158 | ORG | 91-20-3 | Naphthalene | 5400 | | ug/L | 500 | 56.04 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 91% | | 850 |
| NAL13026-247MS | OB 158 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 5000 | 96% | | |
| NAL13026-247MS | OB 158 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 50 | 98% | | |
| NAL13026-247MS | OB 158 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 50 | 102% | | |
| NAL13026-247MS | OB 158 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 50 | 98% | | |
| NAL13026-247MS | OB 158 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8436 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247MSD | OB 158 | ORG | 75-71-8 | Dichlorodifluoromethane | 4200 | | ug/L | 500 | 29.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 84% | 13% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 74-87-3 | Chloromethane | 3700 | | ug/L | 500 | 43.07 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 74% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-01-4 | Vinyl chloride | 4200 | | ug/L | 200 | 31.86 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 84% | 7% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 74-83-9 | Bromomethane | 4800 | | ug/L | 500 | 50.04 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 13% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 8% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-35-4 | 1,1-Dichloroethene | 7000 | | ug/L | 100 | 47.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 140% | 92% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-09-2 | Methylene chloride | 5500 | | ug/L | 500 | 26.46 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 110% | 45% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 67-64-1 | Acetone | 33000 | | ug/L | 1000 | 155.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | -180% | 9% | 42000 |
| NAL13026-247MSD | OB 158 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 6800 | | ug/L | 100 | 55.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 136% | 75% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 1634-04-4 | MTBE | 4800 | | ug/L | 500 | 61.18 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-34-3 | 1,1-Dichloroethane | 5100 | | ug/L | 100 | 52.66 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 102% | 13% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5300 | | ug/L | 100 | 32.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 106% | 22% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 74-97-5 | Bromochloromethane | 5100 | | ug/L | 1000 | 81.18 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 102% | 23% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 67-66-3 | Chloroform | 4300 | | ug/L | 200 | 41.37 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 86% | 9% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5200 | | ug/L | 100 | 15.73 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 19% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 78-93-3 | 2-Butanone | 20000 | | ug/L | 100 | 16.65 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | -80% | 5% | 24000 |
| NAL13026-247MSD | OB 158 | ORG | 56-23-5 | Carbon tetrachloride | 5200 | | ug/L | 100 | 27.64 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 27% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 71-43-2 | Benzene | 5000 | | ug/L | 100 | 13.53 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 32% | 20 |
| NAL13026-247MSD | OB 158 | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 79-01-6 | Trichloroethene | 4800 | | ug/L | 100 | 36.33 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 17% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 74-95-3 | Dibromomethane | 4700 | | ug/L | 200 | 32.20 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 75-27-4 | Bromodichloromethane | 4700 | | ug/L | 200 | 11.58 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 6% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 108-88-3 | Toluene | 4800 | | ug/L | 500 | 74.00 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 12% | 20 |
| NAL13026-247MSD | OB 158 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5000 | | ug/L | 100 | 20.96 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 89% | 8% | 550 |
| NAL13026-247MSD | OB 158 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 127-18-4 | Tetrachloroethene | 3400 | | ug/L | 100 | 48.56 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 68% | 11% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4700 | | ug/L | 100 | 34.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 0% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 102% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 591-78-6 | 2-Hexanone | 4000 | | ug/L | 200 | 26.49 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 80% | 10% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 100-41-4 | Ethylbenzene | 4600 | | ug/L | 100 | 25.38 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 92% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 108-90-7 | Chlorobenzene | 4500 | | ug/L | 100 | 27.52 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 90% | 2% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 96% | 2% | 0 |
| NAL13026-247MSD | OB 158 | ORG | XYLMP | p&m-Xylene | 9900 | | ug/L | 200 | 26.14 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 10000 | 95% | 1% | 370 |
| NAL13026-247MSD | OB 158 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 91% | 2% | 26 |
| NAL13026-247MSD | OB 158 | ORG | 100-42-5 | Styrene | 5200 | | ug/L | 100 | 20.23 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 2% | 19 |
| NAL13026-247MSD | OB 158 | ORG | 75-25-2 | Bromoform | 4900 | | ug/L | 200 | 46.83 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 98% | 2% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 95% | 0% | 38 |
| NAL13026-247MSD | OB 158 | ORG | 103-65-1 | n-Propylbenzene | 5100 | | ug/L | 200 | 27.00 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 101% | 0% | 67 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-247MSD | OB 158 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5200 | | ug/L | 200 | 29.16 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 2% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 102% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 48 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 0% | 196% | 65 |
| NAL13026-247MSD | OB 158 | ORG | 98-06-6 | tert-Butylbenzene | 5000 | | ug/L | 200 | 32.61 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 0% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5300 | | ug/L | 200 | 20.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 101% | 2% | 260 |
| NAL13026-247MSD | OB 158 | ORG | 135-98-8 | sec-Butylbenzene | 4800 | | ug/L | 200 | 32.34 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 92% | 2% | 190 |
| NAL13026-247MSD | OB 158 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 2% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 99-87-6 | p-Isopropltoluene | 6100 | | ug/L | 200 | 25.48 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 86% | 0% | 1800 |
| NAL13026-247MSD | OB 158 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5500 | | ug/L | 200 | 33.03 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 107% | 2% | 170 |
| NAL13026-247MSD | OB 158 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 104% | 0% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 102% | 0% | 110 |
| NAL13026-247MSD | OB 158 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5500 | | ug/L | 500 | 159.11 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 110% | 0% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 100% | 4% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 98% | 0% | 0 |
| NAL13026-247MSD | OB 158 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 87% | 4% | 850 |
| NAL13026-247MSD | OB 158 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 5000 | 94% | 2% | 0 |
| NAL13026-247MSD | OB 158 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 50 | 98% | 0% | 0 |
| NAL13026-247MSD | OB 158 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 50 | 98% | 4% | 0 |
| NAL13026-247MSD | OB 158 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 50 | 100% | 2% | 0 |
| NAL13026-247MSD | OB 158 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/26/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8437 | 50 | 102% | 2% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253 | OB-157 (MSD) | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 67-64-1 | Acetone | 50000 | D | ug/L | 10000 | 1556.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8452 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 78-93-3 | 2-Butanone | 17000 | DX+ | ug/L | 10000 | 811.80 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8452 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 71-43-2 | Benzene | 22 | J | ug/L | 100 | 13.53 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 108-88-3 | Toluene | 38 | J | ug/L | 100 | 20.96 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 108-10-1 | 4-Methyl-2-pentanone | 380 | JX+ | ug/L | 500 | 74.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 100-41-4 | Ethylbenzene | | UX- | ug/L | 100 | 25.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | XYLMP | p&m-Xylene | 400 | | ug/L | 200 | 26.14 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 95-47-6 | o-Xylene | 38 | JX- | ug/L | 100 | 12.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 100-42-5 | Styrene | 55 | J | ug/L | 100 | 20.23 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 98-82-8 | Isopropylbenzene | 46 | J | ug/L | 200 | 20.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 103-65-1 | n-Propylbenzene | 82 | J | ug/L | 200 | 27.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253 | OB-157 (MSD) | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 66 | J | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 135-98-8 | sec-Butylbenzene | 47 | J | ug/L | 200 | 32.34 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 99-87-6 | p-Isopropltoluene | 310 | | ug/L | 200 | 25.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 106-46-7 | 1,4-Dichlorobenzene | 17 | J | ug/L | 200 | 33.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 104-51-8 | n-Butylbenzene | 79 | J | ug/L | 500 | 27.81 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 91-20-3 | Naphthalene | 440 | J | ug/L | 500 | 56.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | | | | |
| NAL13026-253 | OB-157 (MSD) | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | 50 | 98% | | |
| NAL13026-253 | OB-157 (MSD) | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | 50 | 102% | | |
| NAL13026-253 | OB-157 (MSD) | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | 50 | 100% | | |
| NAL13026-253 | OB-157 (MSD) | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8449 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-254 | OB-159 (MSD) | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 67-64-1 | Acetone | 40000 | D | ug/L | 10000 | 1556.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8453 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 78-93-3 | 2-Butanone | 23000 | DX+ | ug/L | 10000 | 166.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8453 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 108-10-1 | 4-Methyl-2-pentanone | 560 | X+ | ug/L | 500 | 20.96 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 100-41-4 | Ethylbenzene | | UX- | ug/L | 100 | 25.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 95-47-6 | o-Xylene | 23 | J | ug/L | 100 | 12.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 100-42-5 | Styrene | 22 | J | ug/L | 100 | 20.23 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 98-82-8 | Isopropylbenzene | 37 | J | ug/L | 200 | 20.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-254 | OB-159 (MSD) | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 62 | J | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 190 | J | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 135-98-8 | sec-Butylbenzene | 34 | J | ug/L | 200 | 32.34 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 99-87-6 | p-Isopropltoluene | 1200 | | ug/L | 200 | 25.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 106-46-7 | 1,4-Dichlorobenzene | 140 | J | ug/L | 200 | 33.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 104-51-8 | n-Butylbenzene | 88 | J | ug/L | 500 | 27.81 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 91-20-3 | Naphthalene | 720 | | ug/L | 500 | 56.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | | | | |
| NAL13026-254 | OB-159 (MSD) | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | 50 | 100% | | |
| NAL13026-254 | OB-159 (MSD) | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | 50 | 104% | | |
| NAL13026-254 | OB-159 (MSD) | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | 50 | 96% | | |
| NAL13026-254 | OB-159 (MSD) | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8450 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-255 | OB 158-2 | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 500 | 29.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 67-64-1 | Acetone | 36000 | D | ug/L | 10000 | 1556.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8454 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 78-93-3 | 2-Butanone | 21000 | DX+ | ug/L | 10000 | 166.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8454 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 540 | X+ | ug/L | 500 | 20.96 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 100-41-4 | Ethylbenzene | | UX- | ug/L | 100 | 25.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 108-90-7 | Chlorobenzene | | UX- | ug/L | 100 | 27.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | XYLMP | p&m-Xylene | 350 | | ug/L | 200 | 26.14 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 95-47-6 | o-Xylene | 19 | JX- | ug/L | 100 | 12.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 100-42-5 | Styrene | 14 | J | ug/L | 100 | 20.23 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 103-65-1 | n-Propylbenzene | 53 | J | ug/L | 200 | 27.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-255 | OB 158-2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 50 | J | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 210 | | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 99-87-6 | p-Isopropltoluene | 1800 | | ug/L | 200 | 25.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 180 | J | ug/L | 200 | 33.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 104-51-8 | n-Butylbenzene | 160 | J | ug/L | 500 | 27.81 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 91-20-3 | Naphthalene | 1100 | | ug/L | 500 | 56.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | | | | |
| NAL13026-255 | OB 158-2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | 50 | 98% | | |
| NAL13026-255 | OB 158-2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | 50 | 102% | | |
| NAL13026-255 | OB 158-2 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | 50 | 100% | | |
| NAL13026-255 | OB 158-2 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8451 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713CCVA | J052713CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 41 | | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 82% | | |
| J052713CCVA | J052713CCVA | ORG | 74-87-3 | Chloromethane | 45 | | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 90% | | |
| J052713CCVA | J052713CCVA | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 86% | | |
| J052713CCVA | J052713CCVA | ORG | 74-83-9 | Bromomethane | 40 | | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 80% | | |
| J052713CCVA | J052713CCVA | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 106% | | |
| J052713CCVA | J052713CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 45 | | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 90% | | |
| J052713CCVA | J052713CCVA | ORG | 75-09-2 | Methylene chloride | 46 | | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 67-64-1 | Acetone | 58 | | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 116% | | |
| J052713CCVA | J052713CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 102% | | |
| J052713CCVA | J052713CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 46 | | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | ORG | 67-66-3 | Chloroform | 41 | | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 82% | | |
| J052713CCVA | J052713CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 46 | | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 78-93-3 | 2-Butanone | 62 | | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 124% | | |
| J052713CCVA | J052713CCVA | ORG | 56-23-5 | Carbon tetrachloride | 45 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 90% | | |
| J052713CCVA | J052713CCVA | ORG | 71-43-2 | Benzene | 43 | | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 86% | | |
| J052713CCVA | J052713CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 79-01-6 | Trichloroethene | 44 | | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 88% | | |
| J052713CCVA | J052713CCVA | ORG | 74-95-3 | Dibromomethane | 44 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 88% | | |
| J052713CCVA | J052713CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 43 | | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 86% | | |
| J052713CCVA | J052713CCVA | ORG | 75-27-4 | Bromodichloromethane | 44 | | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 88% | | |
| J052713CCVA | J052713CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 108-88-3 | Toluene | 42 | | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 84% | | |
| J052713CCVA | J052713CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 69 | | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 138% | | |
| J052713CCVA | J052713CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 90% | | |
| J052713CCVA | J052713CCVA | ORG | 127-18-4 | Tetrachloroethene | 36 | | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 72% | | |
| J052713CCVA | J052713CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 46 | | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 94% | | |
| J052713CCVA | J052713CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 591-78-6 | 2-Hexanone | 73 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 146% | | |
| J052713CCVA | J052713CCVA | ORG | 100-41-4 | Ethylbenzene | 39 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 78% | | |
| J052713CCVA | J052713CCVA | ORG | 108-90-7 | Chlorobenzene | 39 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 78% | | |
| J052713CCVA | J052713CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 84% | | |
| J052713CCVA | J052713CCVA | ORG | XYLMP | p&m-Xylene | 84 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 100 | 84% | | |
| J052713CCVA | J052713CCVA | ORG | 95-47-6 | o-Xylene | 39 | | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 78% | | |
| J052713CCVA | J052713CCVA | ORG | 100-42-5 | Styrene | 44 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 88% | | |
| J052713CCVA | J052713CCVA | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 98-82-8 | Isopropylbenzene | 40 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 80% | | |
| J052713CCVA | J052713CCVA | ORG | 103-65-1 | n-Propylbenzene | 44 | | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 88% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713CCVA | J052713CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 52 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 104% | | |
| J052713CCVA | J052713CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 51 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 102% | | |
| J052713CCVA | J052713CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 84% | | |
| J052713CCVA | J052713CCVA | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 92% | | |
| J052713CCVA | J052713CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 90% | | |
| J052713CCVA | J052713CCVA | ORG | 135-98-8 | sec-Butylbenzene | 42 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 84% | | |
| J052713CCVA | J052713CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 99-87-6 | p-Isopropltoluene | 43 | | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 86% | | |
| J052713CCVA | J052713CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 100% | | |
| J052713CCVA | J052713CCVA | ORG | 104-51-8 | n-Butylbenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 94% | | |
| J052713CCVA | J052713CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 106% | | |
| J052713CCVA | J052713CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 49 | | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 98% | | |
| J052713CCVA | J052713CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 104% | | |
| J052713CCVA | J052713CCVA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 96% | | |
| J052713CCVA | J052713CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8447 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713MBKA | J052713MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713MBKA | J052713MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | | | | |
| J052713MBKA | J052713MBKA | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | 50 | 102% | | |
| J052713MBKA | J052713MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | 50 | 104% | | |
| J052713MBKA | J052713MBKA | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | 50 | 100% | | |
| J052713MBKA | J052713MBKA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8448 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713ALCS | J052713ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 42 | | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 84% | | |
| J052713ALCS | J052713ALCS | ORG | 74-87-3 | Chloromethane | 37 | | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 74% | | |
| J052713ALCS | J052713ALCS | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | ORG | 74-83-9 | Bromomethane | 43 | | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 106% | | |
| J052713ALCS | J052713ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 46 | | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 92% | | |
| J052713ALCS | J052713ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | ORG | 75-09-2 | Methylene chloride | 39 | | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 78% | | |
| J052713ALCS | J052713ALCS | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 55 | | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 110% | | |
| J052713ALCS | J052713ALCS | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 108% | | |
| J052713ALCS | J052713ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 74-97-5 | Bromochloromethane | 50 | | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 67-66-3 | Chloroform | 44 | | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 88% | | |
| J052713ALCS | J052713ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 78-93-3 | 2-Butanone | 48 | | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 56-23-5 | Carbon tetrachloride | 48 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 71-43-2 | Benzene | 45 | | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 90% | | |
| J052713ALCS | J052713ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 92% | | |
| J052713ALCS | J052713ALCS | ORG | 79-01-6 | Trichloroethene | 48 | | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 94% | | |
| J052713ALCS | J052713ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 94% | | |
| J052713ALCS | J052713ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 90% | | |
| J052713ALCS | J052713ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 50 | | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 94% | | |
| J052713ALCS | J052713ALCS | ORG | 127-18-4 | Tetrachloroethene | 47 | | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 94% | | |
| J052713ALCS | J052713ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 591-78-6 | 2-Hexanone | 51 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 102% | | |
| J052713ALCS | J052713ALCS | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 84% | | |
| J052713ALCS | J052713ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 90% | | |
| J052713ALCS | J052713ALCS | ORG | XYLMP | p&m-Xylene | 91 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 100 | 91% | | |
| J052713ALCS | J052713ALCS | ORG | 95-47-6 | o-Xylene | 43 | | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 75-25-2 | Bromoform | 49 | | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 98-82-8 | Isopropylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 90% | | |
| J052713ALCS | J052713ALCS | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713ALCS | J052713ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 55 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 110% | | |
| J052713ALCS | J052713ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 52 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 104% | | |
| J052713ALCS | J052713ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 90% | | |
| J052713ALCS | J052713ALCS | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 96% | | |
| J052713ALCS | J052713ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 92% | | |
| J052713ALCS | J052713ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 92% | | |
| J052713ALCS | J052713ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 102% | | |
| J052713ALCS | J052713ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 104% | | |
| J052713ALCS | J052713ALCS | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 46 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 92% | | |
| J052713ALCS | J052713ALCS | ORG | 91-20-3 | Naphthalene | 44 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 88% | | |
| J052713ALCS | J052713ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 43 | | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 86% | | |
| J052713ALCS | J052713ALCS | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 100% | | |
| J052713ALCS | J052713ALCS | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |
| J052713ALCS | J052713ALCS | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8455 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713ALCD | J052713ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 42 | | ug/L | 5 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 84% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 74-87-3 | Chloromethane | 39 | | ug/L | 5 | 0.43 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 78% | 5% | |
| J052713ALCD | J052713ALCD | ORG | 75-01-4 | Vinyl chloride | 44 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 74-83-9 | Bromomethane | 44 | | ug/L | 5 | 0.50 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 75-00-3 | Chloroethane | 51 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 102% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 46 | | ug/L | 5 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 43 | | ug/L | 1 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 86% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 19% | |
| J052713ALCD | J052713ALCD | ORG | 67-64-1 | Acetone | 48 | | ug/L | 10 | 1.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 57 | | ug/L | 1 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 114% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 1634-04-4 | MTBE | 57 | | ug/L | 5 | 0.61 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 114% | 5% | |
| J052713ALCD | J052713ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 100% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 98% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 67-66-3 | Chloroform | 44 | | ug/L | 2 | 0.41 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 106% | 10% | |
| J052713ALCD | J052713ALCD | ORG | 56-23-5 | Carbon tetrachloride | 47 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 71-43-2 | Benzene | 44 | | ug/L | 1 | 0.14 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 79-01-6 | Trichloroethene | 46 | | ug/L | 1 | 0.36 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 74-95-3 | Dibromomethane | 47 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 48 | | ug/L | 1 | 0.18 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 108-88-3 | Toluene | 45 | | ug/L | 5 | 0.74 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 90% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 51 | | ug/L | 1 | 0.21 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 102% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.31 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 90% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 127-18-4 | Tetrachloroethene | 48 | | ug/L | 1 | 0.49 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 100% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 591-78-6 | 2-Hexanone | 57 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 114% | 11% | |
| J052713ALCD | J052713ALCD | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 82% | 5% | |
| J052713ALCD | J052713ALCD | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 80% | 5% | |
| J052713ALCD | J052713ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 42 | | ug/L | 2 | 0.19 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 84% | 7% | |
| J052713ALCD | J052713ALCD | ORG | XYLMP | p&m-Xylene | 88 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 100 | 88% | 3% | |
| J052713ALCD | J052713ALCD | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 84% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 86% | 5% | |
| J052713ALCD | J052713ALCD | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052713ALCD | J052713ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 102% | 8% | |
| J052713ALCD | J052713ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 98% | 6% | |
| J052713ALCD | J052713ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 90% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 48 | | ug/L | 2 | 0.22 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 99-87-6 | p-Isopropltoluene | 44 | | ug/L | 2 | 0.25 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 88% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 49 | | ug/L | 2 | 0.33 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 98% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 104% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 104-51-8 | n-Butylbenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | | ug/L | 5 | 1.59 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 98% | 2% | |
| J052713ALCD | J052713ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 100% | 0% | |
| J052713ALCD | J052713ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 4% | |
| J052713ALCD | J052713ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 94% | 9% | |
| J052713ALCD | J052713ALCD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 100% | 0% | |
| J052713ALCD | J052713ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 100% | 0% | |
| J052713ALCD | J052713ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 96% | 2% | |
| J052713ALCD | J052713ALCD | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | NA | 5/27/2013 | 5/27/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8456 | 50 | 92% | 6% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-71-8 | Dichlorodifluoromethane | 4000 | | ug/L | 500 | 29.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 80% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 74-87-3 | Chloromethane | 3800 | | ug/L | 500 | 43.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 76% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-01-4 | Vinyl chloride | 4300 | | ug/L | 200 | 31.86 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 86% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 74-83-9 | Bromomethane | 4500 | | ug/L | 500 | 50.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 90% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 104% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-69-4 | Trichlorofluoromethane | 4500 | | ug/L | 500 | 19.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 90% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-35-4 | 1,1-Dichloroethene | 4200 | | ug/L | 100 | 47.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 84% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-09-2 | Methylene chloride | 4400 | | ug/L | 500 | 26.46 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 88% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 67-64-1 | Acetone | 32000 | | ug/L | 1000 | 155.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | -360% | | 50000 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5600 | | ug/L | 100 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 112% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 1634-04-4 | MTBE | 5600 | | ug/L | 500 | 61.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 112% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 102% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 74-97-5 | Bromochloromethane | 4800 | | ug/L | 1000 | 81.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 67-66-3 | Chloroform | 4200 | | ug/L | 200 | 41.37 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 84% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4900 | | ug/L | 100 | 15.73 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 98% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 78-93-3 | 2-Butanone | 19000 | | ug/L | 100 | 16.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 40% | | 17000 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 71-43-2 | Benzene | 4500 | | ug/L | 100 | 13.53 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 90% | | 22 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 107-06-2 | 1,2-Dichloroethane | 4800 | | ug/L | 100 | 20.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 79-01-6 | Trichloroethene | 4700 | | ug/L | 100 | 36.33 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 74-95-3 | Dibromomethane | 4700 | | ug/L | 200 | 32.20 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-27-4 | Bromodichloromethane | 4600 | | ug/L | 200 | 11.58 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 92% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 108-88-3 | Toluene | 4400 | | ug/L | 500 | 74.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 87% | | 38 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5000 | | ug/L | 100 | 20.96 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 92% | | 380 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4500 | | ug/L | 100 | 31.15 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 90% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 127-18-4 | Tetrachloroethene | 3400 | | ug/L | 100 | 48.56 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 68% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4600 | | ug/L | 100 | 34.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 92% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 106-93-4 | 1,2-Dibromoethane | 5000 | | ug/L | 200 | 29.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 100% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 78% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 100-41-4 | Ethylbenzene | 4200 | | ug/L | 100 | 25.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 84% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 108-90-7 | Chlorobenzene | 4100 | | ug/L | 100 | 27.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 82% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4400 | | ug/L | 200 | 19.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 88% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 10000 | 87% | | 400 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 95-47-6 | o-Xylene | 4200 | | ug/L | 100 | 12.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 83% | | 38 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 95% | | 55 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 75-25-2 | Bromoform | 4800 | | ug/L | 200 | 46.83 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 98-82-8 | Isopropylbenzene | 4500 | | ug/L | 200 | 20.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 89% | | 46 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | 82 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253MS | OB-157 (MSD) | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 106% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 98% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 88% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 98-06-6 | tert-Butylbenzene | 4700 | | ug/L | 200 | 32.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 97% | | 66 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 135-98-8 | sec-Butylbenzene | 4500 | | ug/L | 200 | 32.34 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 89% | | 47 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 100% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 90% | | 310 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5100 | | ug/L | 200 | 33.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 102% | | 17 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5300 | | ug/L | 200 | 26.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 106% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 96% | | 79 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 100% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 104% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 98% | | |
| NAL13026-253MS | OB-157 (MSD) | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 87% | | 440 |
| NAL13026-253MS | OB-157 (MSD) | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 5000 | 94% | | |
| NAL13026-253MS | OB-157 (MSD) | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 50 | 102% | | |
| NAL13026-253MS | OB-157 (MSD) | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 50 | 102% | | |
| NAL13026-253MS | OB-157 (MSD) | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 50 | 98% | | |
| NAL13026-253MS | OB-157 (MSD) | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8457 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-71-8 | Dichlorodifluoromethane | 4000 | | ug/L | 500 | 29.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 80% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 74-87-3 | Chloromethane | 3600 | | ug/L | 500 | 43.07 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 72% | 5% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-01-4 | Vinyl chloride | 4200 | | ug/L | 200 | 31.86 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 84% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 74-83-9 | Bromomethane | 4200 | | ug/L | 500 | 50.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 84% | 7% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-00-3 | Chloroethane | 5100 | | ug/L | 500 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 102% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-69-4 | Trichlorofluoromethane | 4400 | | ug/L | 500 | 19.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 88% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-35-4 | 1,1-Dichloroethene | 4400 | | ug/L | 100 | 47.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 88% | 5% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-09-2 | Methylene chloride | 4500 | | ug/L | 500 | 26.46 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 90% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 67-64-1 | Acetone | 32000 | | ug/L | 1000 | 155.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | -360% | 0% | 50000 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 156-60-5 | trans-1,2-Dichloroethene | 5200 | | ug/L | 100 | 55.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 104% | 7% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 1634-04-4 | MTBE | 5800 | | ug/L | 500 | 61.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 116% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 94% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 100% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 74-97-5 | Bromochloromethane | 4900 | | ug/L | 1000 | 81.18 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 98% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 67-66-3 | Chloroform | 4200 | | ug/L | 200 | 41.37 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 84% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 100% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 78-93-3 | 2-Butanone | 19000 | | ug/L | 100 | 16.65 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 40% | 0% | 17000 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 71-43-2 | Benzene | 4600 | | ug/L | 100 | 13.53 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 92% | 2% | 22 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 107-06-2 | 1,2-Dichloroethane | 4700 | | ug/L | 100 | 20.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 94% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 79-01-6 | Trichloroethene | 4200 | | ug/L | 100 | 36.33 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 84% | 11% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 74-95-3 | Dibromomethane | 4700 | | ug/L | 200 | 32.20 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 94% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4800 | | ug/L | 100 | 25.01 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 108-88-3 | Toluene | 4500 | | ug/L | 500 | 74.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 89% | 2% | 38 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5200 | | ug/L | 100 | 20.96 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 4% | 380 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 94% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 127-18-4 | Tetrachloroethene | 3500 | | ug/L | 100 | 48.56 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 70% | 3% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4900 | | ug/L | 100 | 34.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 98% | 6% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 98% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 102% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 78% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 86% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 108-90-7 | Chlorobenzene | 4100 | | ug/L | 100 | 27.52 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 82% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4400 | | ug/L | 200 | 19.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 88% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 10000 | 87% | 0% | 400 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 95-47-6 | o-Xylene | 4300 | | ug/L | 100 | 12.90 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 85% | 2% | 38 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 97% | 2% | 55 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 75-25-2 | Bromoform | 4900 | | ug/L | 200 | 46.83 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 98% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 98-82-8 | Isopropylbenzene | 4500 | | ug/L | 200 | 20.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 89% | 0% | 46 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 94% | 0% | 82 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-253MSD | OB-157 (MSD) | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 110% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5100 | | ug/L | 200 | 29.47 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 102% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 88% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 98-06-6 | tert-Butylbenzene | 4800 | | ug/L | 200 | 32.61 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4800 | | ug/L | 200 | 20.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 95% | 2% | 66 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 91% | 2% | 47 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 102% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 90% | 0% | 310 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5200 | | ug/L | 200 | 33.03 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 104% | 2% | 17 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5300 | | ug/L | 200 | 26.38 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 106% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 0% | 79 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 108% | 8% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 104% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 100% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 91-20-3 | Naphthalene | 5000 | | ug/L | 500 | 56.04 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 91% | 4% | 440 |
| NAL13026-253MSD | OB-157 (MSD) | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 5000 | 96% | 2% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 50 | 98% | 4% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 50 | 94% | 8% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 50 | 98% | 0% | 0 |
| NAL13026-253MSD | OB-157 (MSD) | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/27/2013 | 5/27/2013 | 5/27/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8458 | 50 | 96% | 0% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256 | 162-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 67-64-1 | Acetone | 78000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8467 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 78-93-3 | 2-Butanone | 46000 | D | ug/L | 10000 | 811.80 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8467 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 71-43-2 | Benzene | 20 | J | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1200 | | ug/L | 500 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | XYLMP | p&m-Xylene | 340 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256 | 162-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 84 | J | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 91-20-3 | Naphthalene | 250 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | | | | |
| NAL13026-256 | 162-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | 50 | 98% | | |
| NAL13026-256 | 162-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | 50 | 96% | | |
| NAL13026-256 | 162-ST T1 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | 50 | 98% | | |
| NAL13026-256 | 162-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8462 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-257 | 162-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 67-64-1 | Acetone | 93000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8470 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 78-93-3 | 2-Butanone | 53000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8470 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 71-43-2 | Benzene | 55 | J | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 108-88-3 | Toluene | 50 | J | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1400 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 591-78-6 | 2-Hexanone | 300 | JX+ | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 100-41-4 | Ethylbenzene | 46 | J | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | XYLMP | p&m-Xylene | 420 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 95-47-6 | o-Xylene | 48 | J | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 100-42-5 | Styrene | 66 | J | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 98-82-8 | Isopropylbenzene | 49 | J | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 103-65-1 | n-Propylbenzene | 82 | J | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-257 | 162-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 56 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 82 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | 54 | J | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 260 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 58 | J | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 104-51-8 | n-Butylbenzene | 74 | J | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 91-20-3 | Naphthalene | 340 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | | | | |
| NAL13026-257 | 162-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | 50 | 100% | | |
| NAL13026-257 | 162-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | 50 | 98% | | |
| NAL13026-257 | 162-ST T2 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | 50 | 98% | | |
| NAL13026-257 | 162-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8463 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-258 | 162-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 67-64-1 | Acetone | 75000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8472 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 78-93-3 | 2-Butanone | 42000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8472 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 71-43-2 | Benzene | 18 | J | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 108-88-3 | Toluene | 15 | J | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 820 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 95-47-6 | o-Xylene | 28 | J | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 100-42-5 | Styrene | 20 | J | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 37 | J | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 65 | J | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-258 | 162-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 62 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 260 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 28 | J | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 1600 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 250 | | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 104-51-8 | n-Butylbenzene | 130 | J | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 91-20-3 | Naphthalene | 840 | | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | | | | |
| NAL13026-258 | 162-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | 50 | 100% | | |
| NAL13026-258 | 162-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | 50 | 96% | | |
| NAL13026-258 | 162-ST T3 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | 50 | 98% | | |
| NAL13026-258 | 162-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8465 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-259 | 162-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 67-64-1 | Acetone | 97000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8473 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 78-93-3 | 2-Butanone | 59000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8473 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1600 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 591-78-6 | 2-Hexanone | 78 | JX+ | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | XYLMP | p&m-Xylene | 340 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 100-42-5 | Styrene | 15 | J | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-259 | 162-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 45 | J | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 91-20-3 | Naphthalene | 240 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | | | | |
| NAL13026-259 | 162-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | 50 | 100% | | |
| NAL13026-259 | 162-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | 50 | 98% | | |
| NAL13026-259 | 162-ST T4 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | 50 | 98% | | |
| NAL13026-259 | 162-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8466 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-260 | OB-164 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 67-64-1 | Acetone | 53000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8471 | | | | |
| NAL13026-260 | OB-164 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 78-93-3 | 2-Butanone | 31000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8471 | | | | |
| NAL13026-260 | OB-164 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 71-43-2 | Benzene | 53 | J | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 108-88-3 | Toluene | 16 | J | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 700 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | XYLMP | p&m-Xylene | 350 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 95-47-6 | o-Xylene | 18 | J | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 100-42-5 | Styrene | 16 | J | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 98-82-8 | Isopropylbenzene | 11 | J | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 103-65-1 | n-Propylbenzene | 45 | J | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-260 | OB-164 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 21 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 135-98-8 | sec-Butylbenzene | 12 | J | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 99-87-6 | p-Isopropltoluene | 320 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 104-51-8 | n-Butylbenzene | 36 | J | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 91-20-3 | Naphthalene | 340 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | | | | |
| NAL13026-260 | OB-164 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | 50 | 100% | | |
| NAL13026-260 | OB-164 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | 50 | 98% | | |
| NAL13026-260 | OB-164 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | 50 | 98% | | |
| NAL13026-260 | OB-164 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8464 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-261 | OB-163 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 67-64-1 | Acetone | 53000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8474 | | | | |
| NAL13026-261 | OB-163 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 78-93-3 | 2-Butanone | 31000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8474 | | | | |
| NAL13026-261 | OB-163 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 500 | J | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | XYLMP | p&m-Xylene | | U | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-261 | OB-163 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 39 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 99-87-6 | p-Isopropltoluene | 450 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 91-20-3 | Naphthalene | 440 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | | | | |
| NAL13026-261 | OB-163 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | 50 | 98% | | |
| NAL13026-261 | OB-163 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | 50 | 96% | | |
| NAL13026-261 | OB-163 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | 50 | 98% | | |
| NAL13026-261 | OB-163 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8468 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-262 | 165-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 67-64-1 | Acetone | 54000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8475 | | | | |
| NAL13026-262 | 165-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 78-93-3 | 2-Butanone | 32000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8475 | | | | |
| NAL13026-262 | 165-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 71-43-2 | Benzene | 22 | J | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 700 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | XYLMP | p&m-Xylene | 330 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 95-47-6 | o-Xylene | | U | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 100-42-5 | Styrene | | U | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-262 | 165-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 35 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 99-87-6 | p-Isopropltoluene | 290 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 91-20-3 | Naphthalene | 300 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | | | | |
| NAL13026-262 | 165-MSD | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | 50 | 98% | | |
| NAL13026-262 | 165-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | 50 | 98% | | |
| NAL13026-262 | 165-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | 50 | 98% | | |
| NAL13026-262 | 165-MSD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8469 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-263 | OB-166 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 10000 | 1556.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8477 | | | | |
| NAL13026-263 | OB-166 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 78-93-3 | 2-Butanone | 28000 | D | ug/L | 10000 | 166.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8477 | | | | |
| NAL13026-263 | OB-166 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 71-43-2 | Benzene | 930 | | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 108-88-3 | Toluene | 100 | | ug/L | 100 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 840 | | ug/L | 500 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 100-41-4 | Ethylbenzene | 49 | J | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | XYLMP | p&m-Xylene | 440 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 95-47-6 | o-Xylene | 61 | J | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 100-42-5 | Styrene | 21 | J | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 98-82-8 | Isopropylbenzene | 23 | J | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 103-65-1 | n-Propylbenzene | 52 | J | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-263 | OB-166 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 67 | J | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 130 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 99-87-6 | p-Isopropltoluene | 520 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 91-20-3 | Naphthalene | 340 | J | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | | | | |
| NAL13026-263 | OB-166 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | 50 | 100% | | |
| NAL13026-263 | OB-166 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | 50 | 98% | | |
| NAL13026-263 | OB-166 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | 50 | 100% | | |
| NAL13026-263 | OB-166 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8476 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813CCVA | J052813CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 38 | | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 76% | | |
| J052813CCVA | J052813CCVA | ORG | 74-87-3 | Chloromethane | 44 | | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 75-01-4 | Vinyl chloride | 44 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 74-83-9 | Bromomethane | 37 | | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 74% | | |
| J052813CCVA | J052813CCVA | ORG | 75-00-3 | Chloroethane | 47 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 41 | | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 82% | | |
| J052813CCVA | J052813CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 45 | | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 90% | | |
| J052813CCVA | J052813CCVA | ORG | 75-09-2 | Methylene chloride | 40 | | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 80% | | |
| J052813CCVA | J052813CCVA | ORG | 67-64-1 | Acetone | 46 | | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 59 | | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 118% | | |
| J052813CCVA | J052813CCVA | ORG | 1634-04-4 | MTBE | 54 | | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 108% | | |
| J052813CCVA | J052813CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |
| J052813CCVA | J052813CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |
| J052813CCVA | J052813CCVA | ORG | 67-66-3 | Chloroform | 40 | | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 80% | | |
| J052813CCVA | J052813CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 47 | | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 78-93-3 | 2-Butanone | 51 | | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 102% | | |
| J052813CCVA | J052813CCVA | ORG | 56-23-5 | Carbon tetrachloride | 46 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | 71-43-2 | Benzene | 47 | | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 44 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 79-01-6 | Trichloroethene | 44 | | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 74-95-3 | Dibromomethane | 44 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 51 | | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 102% | | |
| J052813CCVA | J052813CCVA | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 102% | | |
| J052813CCVA | J052813CCVA | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 60 | | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 120% | | |
| J052813CCVA | J052813CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 127-18-4 | Tetrachloroethene | 28 | | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 56% | | |
| J052813CCVA | J052813CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |
| J052813CCVA | J052813CCVA | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 591-78-6 | 2-Hexanone | 64 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 128% | | |
| J052813CCVA | J052813CCVA | ORG | 100-41-4 | Ethylbenzene | 45 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 90% | | |
| J052813CCVA | J052813CCVA | ORG | 108-90-7 | Chlorobenzene | 43 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 86% | | |
| J052813CCVA | J052813CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 46 | | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | XYLMP | p&m-Xylene | 94 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 100 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 88% | | |
| J052813CCVA | J052813CCVA | ORG | 100-42-5 | Styrene | 50 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813CCVA | J052813CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 108% | | |
| J052813CCVA | J052813CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 90% | | |
| J052813CCVA | J052813CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |
| J052813CCVA | J052813CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 52 | | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 104% | | |
| J052813CCVA | J052813CCVA | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 54 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 108% | | |
| J052813CCVA | J052813CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 54 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 108% | | |
| J052813CCVA | J052813CCVA | ORG | 104-51-8 | n-Butylbenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 104% | | |
| J052813CCVA | J052813CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 92% | | |
| J052813CCVA | J052813CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 112% | | |
| J052813CCVA | J052813CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 100% | | |
| J052813CCVA | J052813CCVA | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 86% | | |
| J052813CCVA | J052813CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | STD | 1868-53-7 | Dibromofluoromethane | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |
| J052813CCVA | J052813CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 94% | | |
| J052813CCVA | J052813CCVA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 98% | | |
| J052813CCVA | J052813CCVA | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8460 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813MBKA | J052813MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813MBKA | J052813MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | | | | |
| J052813MBKA | J052813MBKA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | 50 | 98% | | |
| J052813MBKA | J052813MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | 50 | 96% | | |
| J052813MBKA | J052813MBKA | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | 50 | 100% | | |
| J052813MBKA | J052813MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8461 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813CCVB | J052813CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 38 | | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 76% | | |
| J052813CCVB | J052813CCVB | ORG | 74-87-3 | Chloromethane | 37 | | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 74% | | |
| J052813CCVB | J052813CCVB | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 86% | | |
| J052813CCVB | J052813CCVB | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 82% | | |
| J052813CCVB | J052813CCVB | ORG | 75-00-3 | Chloroethane | 51 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |
| J052813CCVB | J052813CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 50 | | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 100% | | |
| J052813CCVB | J052813CCVB | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |
| J052813CCVB | J052813CCVB | ORG | 67-64-1 | Acetone | 62 | | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 124% | | |
| J052813CCVB | J052813CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 90% | | |
| J052813CCVB | J052813CCVB | ORG | 1634-04-4 | MTBE | 56 | | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 112% | | |
| J052813CCVB | J052813CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 100% | | |
| J052813CCVB | J052813CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | ORG | 74-97-5 | Bromochloromethane | 53 | | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 106% | | |
| J052813CCVB | J052813CCVB | ORG | 67-66-3 | Chloroform | 46 | | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 92% | | |
| J052813CCVB | J052813CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 96% | | |
| J052813CCVB | J052813CCVB | ORG | 78-93-3 | 2-Butanone | 60 | | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 120% | | |
| J052813CCVB | J052813CCVB | ORG | 56-23-5 | Carbon tetrachloride | 47 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |
| J052813CCVB | J052813CCVB | ORG | 71-43-2 | Benzene | 45 | | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 90% | | |
| J052813CCVB | J052813CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 50 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 100% | | |
| J052813CCVB | J052813CCVB | ORG | 79-01-6 | Trichloroethene | 53 | | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 106% | | |
| J052813CCVB | J052813CCVB | ORG | 74-95-3 | Dibromomethane | 52 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 104% | | |
| J052813CCVB | J052813CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 98% | | |
| J052813CCVB | J052813CCVB | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 96% | | |
| J052813CCVB | J052813CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |
| J052813CCVB | J052813CCVB | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 88% | | |
| J052813CCVB | J052813CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 66 | | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 132% | | |
| J052813CCVB | J052813CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 92% | | |
| J052813CCVB | J052813CCVB | ORG | 127-18-4 | Tetrachloroethene | 69 | | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 138% | | |
| J052813CCVB | J052813CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 53 | | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 106% | | |
| J052813CCVB | J052813CCVB | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 56 | | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 112% | | |
| J052813CCVB | J052813CCVB | ORG | 591-78-6 | 2-Hexanone | 72 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 144% | | |
| J052813CCVB | J052813CCVB | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 82% | | |
| J052813CCVB | J052813CCVB | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 82% | | |
| J052813CCVB | J052813CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 88% | | |
| J052813CCVB | J052813CCVB | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 100 | 90% | | |
| J052813CCVB | J052813CCVB | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 84% | | |
| J052813CCVB | J052813CCVB | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |
| J052813CCVB | J052813CCVB | ORG | 75-25-2 | Bromoform | 53 | | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 106% | | |
| J052813CCVB | J052813CCVB | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 84% | | |
| J052813CCVB | J052813CCVB | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813CCVB | J052813CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 59 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 118% | | |
| J052813CCVB | J052813CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 58 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 116% | | |
| J052813CCVB | J052813CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 86% | | |
| J052813CCVB | J052813CCVB | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 96% | | |
| J052813CCVB | J052813CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 98% | | |
| J052813CCVB | J052813CCVB | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 90% | | |
| J052813CCVB | J052813CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 90% | | |
| J052813CCVB | J052813CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 106% | | |
| J052813CCVB | J052813CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 56 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 112% | | |
| J052813CCVB | J052813CCVB | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 100% | | |
| J052813CCVB | J052813CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 66 | | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 132% | | |
| J052813CCVB | J052813CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 52 | | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 104% | | |
| J052813CCVB | J052813CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 104% | | |
| J052813CCVB | J052813CCVB | ORG | 91-20-3 | Naphthalene | 55 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 110% | | |
| J052813CCVB | J052813CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 102% | | |
| J052813CCVB | J052813CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 108% | | |
| J052813CCVB | J052813CCVB | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 96% | | |
| J052813CCVB | J052813CCVB | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8478 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813MBKB | J052813MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813MBKB | J052813MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | | | | |
| J052813MBKB | J052813MBKB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | 50 | 102% | | |
| J052813MBKB | J052813MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | 50 | 104% | | |
| J052813MBKB | J052813MBKB | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | 50 | 98% | | |
| J052813MBKB | J052813MBKB | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8479 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813ALCS | J052813ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 33 | | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 66% | | |
| J052813ALCS | J052813ALCS | ORG | 74-87-3 | Chloromethane | 35 | | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 70% | | |
| J052813ALCS | J052813ALCS | ORG | 75-01-4 | Vinyl chloride | 39 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 78% | | |
| J052813ALCS | J052813ALCS | ORG | 74-83-9 | Bromomethane | 39 | | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 78% | | |
| J052813ALCS | J052813ALCS | ORG | 75-00-3 | Chloroethane | 49 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 44 | | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 38 | | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 76% | | |
| J052813ALCS | J052813ALCS | ORG | 75-09-2 | Methylene chloride | 44 | | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 67-64-1 | Acetone | 60 | | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 120% | | |
| J052813ALCS | J052813ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 41 | | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 82% | | |
| J052813ALCS | J052813ALCS | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |
| J052813ALCS | J052813ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | ORG | 67-66-3 | Chloroform | 43 | | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 86% | | |
| J052813ALCS | J052813ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 47 | | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |
| J052813ALCS | J052813ALCS | ORG | 78-93-3 | 2-Butanone | 60 | | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 120% | | |
| J052813ALCS | J052813ALCS | ORG | 56-23-5 | Carbon tetrachloride | 46 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 92% | | |
| J052813ALCS | J052813ALCS | ORG | 71-43-2 | Benzene | 43 | | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 86% | | |
| J052813ALCS | J052813ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 45 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 90% | | |
| J052813ALCS | J052813ALCS | ORG | 79-01-6 | Trichloroethene | 45 | | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 90% | | |
| J052813ALCS | J052813ALCS | ORG | 74-95-3 | Dibromomethane | 48 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |
| J052813ALCS | J052813ALCS | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |
| J052813ALCS | J052813ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 116% | | |
| J052813ALCS | J052813ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |
| J052813ALCS | J052813ALCS | ORG | 127-18-4 | Tetrachloroethene | 33 | | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 66% | | |
| J052813ALCS | J052813ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 104% | | |
| J052813ALCS | J052813ALCS | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 126% | | |
| J052813ALCS | J052813ALCS | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 82% | | |
| J052813ALCS | J052813ALCS | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 80% | | |
| J052813ALCS | J052813ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 86% | | |
| J052813ALCS | J052813ALCS | ORG | XYLMP | p&m-Xylene | 88 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 100 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 82% | | |
| J052813ALCS | J052813ALCS | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 92% | | |
| J052813ALCS | J052813ALCS | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 92% | | |
| J052813ALCS | J052813ALCS | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 84% | | |
| J052813ALCS | J052813ALCS | ORG | 103-65-1 | n-Propylbenzene | 47 | | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813ALCS | J052813ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 108% | | |
| J052813ALCS | J052813ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 52 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 104% | | |
| J052813ALCS | J052813ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 96% | | |
| J052813ALCS | J052813ALCS | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 88% | | |
| J052813ALCS | J052813ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 52 | | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 104% | | |
| J052813ALCS | J052813ALCS | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 92% | | |
| J052813ALCS | J052813ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 104% | | |
| J052813ALCS | J052813ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 106% | | |
| J052813ALCS | J052813ALCS | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 102% | | |
| J052813ALCS | J052813ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 53 | | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 106% | | |
| J052813ALCS | J052813ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 108% | | |
| J052813ALCS | J052813ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 53 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 106% | | |
| J052813ALCS | J052813ALCS | ORG | 91-20-3 | Naphthalene | 49 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 52 | | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 104% | | |
| J052813ALCS | J052813ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 102% | | |
| J052813ALCS | J052813ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 100% | | |
| J052813ALCS | J052813ALCS | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 98% | | |
| J052813ALCS | J052813ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8480 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813ALCD | J052813ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 37 | | ug/L | 5 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 74% | 11% | |
| J052813ALCD | J052813ALCD | ORG | 74-87-3 | Chloromethane | 40 | | ug/L | 5 | 0.43 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 80% | 13% | |
| J052813ALCD | J052813ALCD | ORG | 75-01-4 | Vinyl chloride | 42 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 84% | 7% | |
| J052813ALCD | J052813ALCD | ORG | 74-83-9 | Bromomethane | 41 | | ug/L | 5 | 0.50 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 82% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 75-00-3 | Chloroethane | 52 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 104% | 6% | |
| J052813ALCD | J052813ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 96% | 9% | |
| J052813ALCD | J052813ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 40 | | ug/L | 1 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 80% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 75-09-2 | Methylene chloride | 45 | | ug/L | 5 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 90% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 67-64-1 | Acetone | 55 | | ug/L | 10 | 1.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 110% | 9% | |
| J052813ALCD | J052813ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 44 | | ug/L | 1 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 88% | 7% | |
| J052813ALCD | J052813ALCD | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 98% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 98% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 74-97-5 | Bromochloromethane | 47 | | ug/L | 10 | 0.81 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 67-66-3 | Chloroform | 41 | | ug/L | 2 | 0.41 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 82% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 47 | | ug/L | 1 | 0.16 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 114% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 56-23-5 | Carbon tetrachloride | 46 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 71-43-2 | Benzene | 43 | | ug/L | 1 | 0.14 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 86% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 44 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 88% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 79-01-6 | Trichloroethene | 39 | | ug/L | 1 | 0.36 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 78% | 14% | |
| J052813ALCD | J052813ALCD | ORG | 74-95-3 | Dibromomethane | 46 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 46 | | ug/L | 1 | 0.18 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 75-27-4 | Bromodichloromethane | 44 | | ug/L | 2 | 0.12 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 88% | 7% | |
| J052813ALCD | J052813ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 108-88-3 | Toluene | 42 | | ug/L | 5 | 0.74 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 84% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 116% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.31 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 90% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 127-18-4 | Tetrachloroethene | 36 | | ug/L | 1 | 0.49 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 72% | 9% | |
| J052813ALCD | J052813ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 124-48-1 | Dibromochloromethane | 46 | | ug/L | 5 | 0.69 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 6% | |
| J052813ALCD | J052813ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 50 | | ug/L | 2 | 0.30 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 100% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 591-78-6 | 2-Hexanone | 61 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 122% | 3% | |
| J052813ALCD | J052813ALCD | ORG | 100-41-4 | Ethylbenzene | 40 | | ug/L | 1 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 80% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 108-90-7 | Chlorobenzene | 38 | | ug/L | 1 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 76% | 5% | |
| J052813ALCD | J052813ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 41 | | ug/L | 2 | 0.19 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 82% | 5% | |
| J052813ALCD | J052813ALCD | ORG | XYLMP | p&m-Xylene | 86 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 100 | 86% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 95-47-6 | o-Xylene | 38 | | ug/L | 1 | 0.13 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 76% | 8% | |
| J052813ALCD | J052813ALCD | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 98-82-8 | Isopropylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 84% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 103-65-1 | n-Propylbenzene | 46 | | ug/L | 2 | 0.27 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 92% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052813ALCD | J052813ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 53 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 106% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 50 | | ug/L | 2 | 0.29 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 100% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 86% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 98-06-6 | tert-Butylbenzene | 45 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 90% | 6% | |
| J052813ALCD | J052813ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 135-98-8 | sec-Butylbenzene | 44 | | ug/L | 2 | 0.32 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 88% | 0% | |
| J052813ALCD | J052813ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 49 | | ug/L | 2 | 0.22 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 98% | 6% | |
| J052813ALCD | J052813ALCD | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 90% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 96% | 8% | |
| J052813ALCD | J052813ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 52 | | ug/L | 2 | 0.26 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 104% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 98% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 52 | | ug/L | 5 | 1.59 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 104% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 106% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 104% | 2% | |
| J052813ALCD | J052813ALCD | ORG | 91-20-3 | Naphthalene | 47 | | ug/L | 5 | 0.56 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 94% | 4% | |
| J052813ALCD | J052813ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 50 | | ug/L | 5 | 0.23 | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 100% | 4% | |
| J052813ALCD | J052813ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 102% | 0% | |
| J052813ALCD | J052813ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 102% | 2% | |
| J052813ALCD | J052813ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 96% | 2% | |
| J052813ALCD | J052813ALCD | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/28/2013 | 5/28/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8481 | 50 | 96% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256MS | 162-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | 3700 | | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 74% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 74-87-3 | Chloromethane | 4000 | | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 80% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-01-4 | Vinyl chloride | 4100 | | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 82% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 74-83-9 | Bromomethane | 4600 | | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 106% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 94% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | 4600 | | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-09-2 | Methylene chloride | 4600 | | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 67-64-1 | Acetone | 71000 | | ug/L | 1000 | 155.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | -140% | | 78000 |
| NAL13026-256MS | 162-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4900 | | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 106% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | 4900 | | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5000 | | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 100% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 100% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 67-66-3 | Chloroform | 4300 | | ug/L | 200 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 86% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4700 | | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 94% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 78-93-3 | 2-Butanone | 42000 | | ug/L | 100 | 16.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | -80% | | 46000 |
| NAL13026-256MS | 162-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 96% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 71-43-2 | Benzene | 4500 | | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 90% | | 20 |
| NAL13026-256MS | 162-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | 4800 | | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 96% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 79-01-6 | Trichloroethene | 4600 | | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 74-95-3 | Dibromomethane | 4700 | | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 94% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 96% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-27-4 | Bromodichloromethane | 4500 | | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 90% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4500 | | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 90% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 108-88-3 | Toluene | 4400 | | ug/L | 500 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 88% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6400 | | ug/L | 100 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 104% | | 1200 |
| NAL13026-256MS | 162-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4400 | | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 88% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 127-18-4 | Tetrachloroethene | 4500 | | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 90% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 96% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 124-48-1 | Dibromochloromethane | 4900 | | ug/L | 500 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 102% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 591-78-6 | 2-Hexanone | 4400 | | ug/L | 200 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 88% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 100-41-4 | Ethylbenzene | 4400 | | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 88% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 108-90-7 | Chlorobenzene | 4300 | | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 86% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4800 | | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 96% | | |
| NAL13026-256MS | 162-ST T1 | ORG | XYLMP | p&m-Xylene | 9300 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 10000 | 90% | | 340 |
| NAL13026-256MS | 162-ST T1 | ORG | 95-47-6 | o-Xylene | 4400 | | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 88% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 100-42-5 | Styrene | 4900 | | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 102% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 4600 | | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 4900 | | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256MS | 162-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5500 | | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 110% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5200 | | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 104% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4600 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | 5000 | | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 100% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4900 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 4600 | | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 92% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 102% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 4600 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 90% | | 84 |
| NAL13026-256MS | 162-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5200 | | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 104% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5200 | | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 104% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 104-51-8 | n-Butylbenzene | 4900 | | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 108% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | 5000 | | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 100% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | ORG | 91-20-3 | Naphthalene | 5200 | | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 99% | | 250 |
| NAL13026-256MS | 162-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4900 | | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 5000 | 98% | | |
| NAL13026-256MS | 162-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 50 | 100% | | |
| NAL13026-256MS | 162-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 50 | 106% | | |
| NAL13026-256MS | 162-ST T1 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 50 | 96% | | |
| NAL13026-256MS | 162-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8482 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256MSD | 162-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | 3500 | | ug/L | 500 | 29.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 70% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 74-87-3 | Chloromethane | 3600 | | ug/L | 500 | 43.07 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 72% | 11% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-01-4 | Vinyl chloride | 3800 | | ug/L | 200 | 31.86 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 76% | 8% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 74-83-9 | Bromomethane | 4600 | | ug/L | 500 | 50.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 92% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | 4600 | | ug/L | 500 | 19.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 92% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | 4500 | | ug/L | 100 | 47.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 90% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-09-2 | Methylene chloride | 5200 | | ug/L | 500 | 26.46 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 12% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 67-64-1 | Acetone | 69000 | | ug/L | 1000 | 155.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | -180% | 3% | 78000 |
| NAL13026-256MSD | 162-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4700 | | ug/L | 100 | 55.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 94% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 1634-04-4 | MTBE | 5300 | | ug/L | 500 | 61.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | 4800 | | ug/L | 100 | 52.66 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 96% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5200 | | ug/L | 100 | 32.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 67-66-3 | Chloroform | 4500 | | ug/L | 200 | 41.37 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 90% | 5% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 78-93-3 | 2-Butanone | 41000 | | ug/L | 100 | 16.65 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | -100% | 2% | 46000 |
| NAL13026-256MSD | 162-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | 4900 | | ug/L | 100 | 27.64 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 98% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 71-43-2 | Benzene | 4700 | | ug/L | 100 | 13.53 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 94% | 4% | 20 |
| NAL13026-256MSD | 162-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | 5000 | | ug/L | 100 | 20.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 79-01-6 | Trichloroethene | 4800 | | ug/L | 100 | 36.33 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 96% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 74-95-3 | Dibromomethane | 4900 | | ug/L | 200 | 32.20 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 98% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | 5200 | | ug/L | 100 | 18.17 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 8% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-27-4 | Bromodichloromethane | 4800 | | ug/L | 200 | 11.58 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 96% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4700 | | ug/L | 100 | 25.01 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 94% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 108-88-3 | Toluene | 4600 | | ug/L | 500 | 74.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 92% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6100 | | ug/L | 100 | 20.96 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 98% | 5% | 1200 |
| NAL13026-256MSD | 162-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4800 | | ug/L | 100 | 31.15 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 96% | 9% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 127-18-4 | Tetrachloroethene | 4600 | | ug/L | 100 | 48.56 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 92% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5100 | | ug/L | 100 | 34.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 102% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 124-48-1 | Dibromochloromethane | 5100 | | ug/L | 500 | 68.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 102% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 591-78-6 | 2-Hexanone | 4000 | | ug/L | 200 | 26.49 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 80% | 10% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 100-41-4 | Ethylbenzene | 4500 | | ug/L | 100 | 25.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 90% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 108-90-7 | Chlorobenzene | 4500 | | ug/L | 100 | 27.52 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 90% | 5% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 5000 | | ug/L | 200 | 19.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | XYLMP | p&m-Xylene | 9600 | | ug/L | 200 | 26.14 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 10000 | 93% | 3% | 340 |
| NAL13026-256MSD | 162-ST T1 | ORG | 95-47-6 | o-Xylene | 4600 | | ug/L | 100 | 12.90 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 92% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 100-42-5 | Styrene | 5300 | | ug/L | 100 | 20.23 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 8% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 75-25-2 | Bromoform | 5300 | | ug/L | 200 | 46.83 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 4800 | | ug/L | 200 | 20.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 96% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 5100 | | ug/L | 200 | 27.00 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 102% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-256MSD | 162-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5900 | | ug/L | 200 | 29.16 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 118% | 7% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5400 | | ug/L | 200 | 29.47 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 108% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 94% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | 5200 | | ug/L | 200 | 32.61 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5200 | | ug/L | 200 | 20.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 104% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 4900 | | ug/L | 200 | 32.34 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 98% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5300 | | ug/L | 200 | 22.21 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 4800 | | ug/L | 200 | 25.48 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 94% | 4% | 84 |
| NAL13026-256MSD | 162-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5400 | | ug/L | 200 | 33.03 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 108% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5500 | | ug/L | 200 | 26.38 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 110% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 102% | 4% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5400 | | ug/L | 500 | 159.11 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 108% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | 5300 | | ug/L | 500 | 65.42 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 106% | 6% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | | ug/L | 500 | 27.63 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | ORG | 91-20-3 | Naphthalene | 5300 | | ug/L | 500 | 56.04 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 101% | 2% | 250 |
| NAL13026-256MSD | 162-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5000 | | ug/L | 500 | 23.28 | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 5000 | 100% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 50 | 102% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 50 | 106% | 0% | 0 |
| NAL13026-256MSD | 162-ST T1 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 50 | 98% | 2% | 0 |
| NAL13026-256MSD | 162-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 51 | | ng | | | 5/28/2013 | 5/28/2013 | 5/28/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8483 | 50 | 102% | 6% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-264 | 167-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 67-64-1 | Acetone | 150000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8493 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 78-93-3 | 2-Butanone | 100000 | D | ug/L | 10000 | 811.80 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8493 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 71-43-2 | Benzene | 220 | | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 108-88-3 | Toluene | 52 | J | ug/L | 100 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2700 | | ug/L | 500 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 591-78-6 | 2-Hexanone | 370 | J | ug/L | 500 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 100-41-4 | Ethylbenzene | 51 | J | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | XYLMP | p&m-Xylene | 450 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 95-47-6 | o-Xylene | 61 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 100-42-5 | Styrene | 37 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 98-82-8 | Isopropylbenzene | 34 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 103-65-1 | n-Propylbenzene | 63 | J | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-264 | 167-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 64 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 290 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | 19 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 1400 | | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 240 | | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 104-51-8 | n-Butylbenzene | 84 | J | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 91-20-3 | Naphthalene | 660 | | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | | | | |
| NAL13026-264 | 167-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | 50 | 98% | | |
| NAL13026-264 | 167-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | 50 | 96% | | |
| NAL13026-264 | 167-ST T1 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | 50 | 96% | | |
| NAL13026-264 | 167-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8487 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-265 | 167-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 67-64-1 | Acetone | 120000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8497 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 78-93-3 | 2-Butanone | 79000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8497 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 71-43-2 | Benzene | 80 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 108-88-3 | Toluene | 22 | J | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3800 | | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 591-78-6 | 2-Hexanone | 900 | | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | XYLMP | p&m-Xylene | 360 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 95-47-6 | o-Xylene | 18 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 100-42-5 | Styrene | 30 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 98-82-8 | Isopropylbenzene | 11 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-265 | 167-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 21 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | 18 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 85 | J | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 91-20-3 | Naphthalene | 290 | J | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | | | | |
| NAL13026-265 | 167-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | 50 | 98% | | |
| NAL13026-265 | 167-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | 50 | 100% | | |
| NAL13026-265 | 167-ST T2 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | 50 | 98% | | |
| NAL13026-265 | 167-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8489 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-266 | 167-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 67-64-1 | Acetone | 120000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8498 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 78-93-3 | 2-Butanone | 74000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8498 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 71-43-2 | Benzene | 29 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 108-88-3 | Toluene | 18 | J | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 3200 | | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 591-78-6 | 2-Hexanone | 920 | | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 95-47-6 | o-Xylene | 18 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 100-42-5 | Styrene | 36 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 21 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 55 | J | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-266 | 167-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 27 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 23 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 92 | J | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 91-20-3 | Naphthalene | 330 | J | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | | | | |
| NAL13026-266 | 167-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | 50 | 98% | | |
| NAL13026-266 | 167-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | 50 | 100% | | |
| NAL13026-266 | 167-ST T3 | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | 50 | 100% | | |
| NAL13026-266 | 167-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8490 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-267 | 167-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 67-64-1 | Acetone | 87000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8499 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 78-93-3 | 2-Butanone | 46000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8499 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 71-43-2 | Benzene | 21 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 108-88-3 | Toluene | 35 | J | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1400 | | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 100-41-4 | Ethylbenzene | 37 | J | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | XYLMP | p&m-Xylene | 410 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 95-47-6 | o-Xylene | 38 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 100-42-5 | Styrene | 51 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 39 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 78 | J | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-267 | 167-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | 26 | J | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 36 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | 45 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 60 | J | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 104-51-8 | n-Butylbenzene | 63 | J | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 91-20-3 | Naphthalene | 270 | J | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | | | | |
| NAL13026-267 | 167-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | 50 | 100% | | |
| NAL13026-267 | 167-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | 50 | 104% | | |
| NAL13026-267 | 167-ST T4 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | 50 | 98% | | |
| NAL13026-267 | 167-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8491 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268 | OB-166 R | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 67-64-1 | Acetone | 49000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8496 | | | | |
| NAL13026-268 | OB-166 R | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 78-93-3 | 2-Butanone | 28000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8496 | | | | |
| NAL13026-268 | OB-166 R | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 71-43-2 | Benzene | 27 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 108-10-1 | 4-Methyl-2-pentanone | 680 | | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | XYLMP | p&m-Xylene | 340 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 95-47-6 | o-Xylene | 12 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 100-42-5 | Styrene | 25 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268 | OB-166 R | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 11 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 99-87-6 | p-Isopropltoluene | 96 | J | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 91-20-3 | Naphthalene | 270 | J | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | | | | |
| NAL13026-268 | OB-166 R | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | 50 | 100% | | |
| NAL13026-268 | OB-166 R | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | 50 | 98% | | |
| NAL13026-268 | OB-166 R | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | 50 | 98% | | |
| NAL13026-268 | OB-166 R | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8488 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-269 | OB-169 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 67-64-1 | Acetone | 43000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8500 | | | | |
| NAL13026-269 | OB-169 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 78-93-3 | 2-Butanone | 22000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8500 | | | | |
| NAL13026-269 | OB-169 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 71-43-2 | Benzene | 48 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 108-88-3 | Toluene | 36 | J | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 420 | J | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 100-41-4 | Ethylbenzene | 37 | J | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | XYLMP | p&m-Xylene | 430 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 95-47-6 | o-Xylene | 44 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 100-42-5 | Styrene | 43 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 98-82-8 | Isopropylbenzene | 50 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 103-65-1 | n-Propylbenzene | 88 | J | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-269 | OB-169 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 74 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 220 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 135-98-8 | sec-Butylbenzene | 53 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 99-87-6 | p-Isopropltoluene | 1100 | | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 180 | J | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 104-51-8 | n-Butylbenzene | 120 | J | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 91-20-3 | Naphthalene | 760 | | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | | | | |
| NAL13026-269 | OB-169 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | 50 | 98% | | |
| NAL13026-269 | OB-169 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | 50 | 104% | | |
| NAL13026-269 | OB-169 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | 50 | 98% | | |
| NAL13026-269 | OB-169 | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8492 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-270 | 168-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 74-83-9 | Bromomethane | | U | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 67-64-1 | Acetone | 33000 | D | ug/L | 10000 | 1556.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8495 | | | | |
| NAL13026-270 | 168-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 78-93-3 | 2-Butanone | 23000 | D | ug/L | 10000 | 166.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8495 | | | | |
| NAL13026-270 | 168-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 71-43-2 | Benzene | 15 | J | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 108-88-3 | Toluene | | U | ug/L | 100 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 510 | | ug/L | 500 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | XYLMP | p&m-Xylene | 400 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 95-47-6 | o-Xylene | 41 | J | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 100-42-5 | Styrene | 11 | J | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 98-82-8 | Isopropylbenzene | 39 | J | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 103-65-1 | n-Propylbenzene | 69 | J | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-270 | 168-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 160 | J | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 360 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 135-98-8 | sec-Butylbenzene | 22 | J | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 99-87-6 | p-Isopropltoluene | 2000 | | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 280 | | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 104-51-8 | n-Butylbenzene | 140 | J | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 91-20-3 | Naphthalene | 880 | | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | | | | |
| NAL13026-270 | 168-MSD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | 50 | 102% | | |
| NAL13026-270 | 168-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | 50 | 100% | | |
| NAL13026-270 | 168-MSD | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | 50 | 100% | | |
| NAL13026-270 | 168-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8494 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913CCVA | J052913CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 35 | | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 70% | | |
| J052913CCVA | J052913CCVA | ORG | 74-87-3 | Chloromethane | 47 | | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 86% | | |
| J052913CCVA | J052913CCVA | ORG | 74-83-9 | Bromomethane | 42 | | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 84% | | |
| J052913CCVA | J052913CCVA | ORG | 75-00-3 | Chloroethane | 50 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 51 | | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 102% | | |
| J052913CCVA | J052913CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 38 | | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 76% | | |
| J052913CCVA | J052913CCVA | ORG | 75-09-2 | Methylene chloride | 44 | | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 67-64-1 | Acetone | 52 | | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 104% | | |
| J052913CCVA | J052913CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 1634-04-4 | MTBE | 47 | | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 50 | | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 51 | | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 102% | | |
| J052913CCVA | J052913CCVA | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 96% | | |
| J052913CCVA | J052913CCVA | ORG | 67-66-3 | Chloroform | 42 | | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 84% | | |
| J052913CCVA | J052913CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 48 | | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 96% | | |
| J052913CCVA | J052913CCVA | ORG | 78-93-3 | 2-Butanone | 50 | | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 56-23-5 | Carbon tetrachloride | 47 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 71-43-2 | Benzene | 46 | | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 44 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 79-01-6 | Trichloroethene | 43 | | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 86% | | |
| J052913CCVA | J052913CCVA | ORG | 74-95-3 | Dibromomethane | 44 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 52 | | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 104% | | |
| J052913CCVA | J052913CCVA | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 102% | | |
| J052913CCVA | J052913CCVA | ORG | 108-88-3 | Toluene | 46 | | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 59 | | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 118% | | |
| J052913CCVA | J052913CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 96% | | |
| J052913CCVA | J052913CCVA | ORG | 127-18-4 | Tetrachloroethene | 29 | | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 58% | | |
| J052913CCVA | J052913CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 98% | | |
| J052913CCVA | J052913CCVA | ORG | 591-78-6 | 2-Hexanone | 59 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 118% | | |
| J052913CCVA | J052913CCVA | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 108-90-7 | Chlorobenzene | 44 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | XYLMP | p&m-Xylene | 93 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 100 | 93% | | |
| J052913CCVA | J052913CCVA | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 88% | | |
| J052913CCVA | J052913CCVA | ORG | 100-42-5 | Styrene | 50 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 75-25-2 | Bromoform | 47 | | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913CCVA | J052913CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 102% | | |
| J052913CCVA | J052913CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 98% | | |
| J052913CCVA | J052913CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 50 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 100% | | |
| J052913CCVA | J052913CCVA | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 96% | | |
| J052913CCVA | J052913CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 52 | | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 104% | | |
| J052913CCVA | J052913CCVA | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 53 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 106% | | |
| J052913CCVA | J052913CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 106% | | |
| J052913CCVA | J052913CCVA | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 102% | | |
| J052913CCVA | J052913CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 42 | | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 84% | | |
| J052913CCVA | J052913CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 54 | | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 108% | | |
| J052913CCVA | J052913CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 98% | | |
| J052913CCVA | J052913CCVA | ORG | 91-20-3 | Naphthalene | 41 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 82% | | |
| J052913CCVA | J052913CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 46 | | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 92% | | |
| J052913CCVA | J052913CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 98% | | |
| J052913CCVA | J052913CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 47 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |
| J052913CCVA | J052913CCVA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 98% | | |
| J052913CCVA | J052913CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8485 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913MBKA | J052913MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913MBKA | J052913MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | | | | |
| J052913MBKA | J052913MBKA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | 50 | 100% | | |
| J052913MBKA | J052913MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | 50 | 98% | | |
| J052913MBKA | J052913MBKA | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | 50 | 96% | | |
| J052913MBKA | J052913MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8486 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913CCVB | J052913CCVB | ORG | 75-71-8 | Dichlorodifluoromethane | 34 | | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 68% | | |
| J052913CCVB | J052913CCVB | ORG | 74-87-3 | Chloromethane | 34 | | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 68% | | |
| J052913CCVB | J052913CCVB | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 82% | | |
| J052913CCVB | J052913CCVB | ORG | 74-83-9 | Bromomethane | 44 | | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 88% | | |
| J052913CCVB | J052913CCVB | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 106% | | |
| J052913CCVB | J052913CCVB | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 75-35-4 | 1,1-Dichloroethene | 41 | | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 82% | | |
| J052913CCVB | J052913CCVB | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 86% | | |
| J052913CCVB | J052913CCVB | ORG | 67-64-1 | Acetone | 51 | | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 102% | | |
| J052913CCVB | J052913CCVB | ORG | 156-60-5 | trans-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 1634-04-4 | MTBE | 48 | | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 75-34-3 | 1,1-Dichloroethane | 48 | | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 67-66-3 | Chloroform | 43 | | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 86% | | |
| J052913CCVB | J052913CCVB | ORG | 71-55-6 | 1,1,1-Trichloroethane | 50 | | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 78-93-3 | 2-Butanone | 53 | | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 106% | | |
| J052913CCVB | J052913CCVB | ORG | 56-23-5 | Carbon tetrachloride | 48 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 71-43-2 | Benzene | 44 | | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 88% | | |
| J052913CCVB | J052913CCVB | ORG | 107-06-2 | 1,2-Dichloroethane | 46 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 79-01-6 | Trichloroethene | 43 | | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 86% | | |
| J052913CCVB | J052913CCVB | ORG | 74-95-3 | Dibromomethane | 45 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 90% | | |
| J052913CCVB | J052913CCVB | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 75-27-4 | Bromodichloromethane | 47 | | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 88% | | |
| J052913CCVB | J052913CCVB | ORG | 108-10-1 | 4-Methyl-2-pentanone | 53 | | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 106% | | |
| J052913CCVB | J052913CCVB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 127-18-4 | Tetrachloroethene | 31 | | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 62% | | |
| J052913CCVB | J052913CCVB | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 124-48-1 | Dibromochloromethane | 47 | | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | ORG | 591-78-6 | 2-Hexanone | 52 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 104% | | |
| J052913CCVB | J052913CCVB | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 86% | | |
| J052913CCVB | J052913CCVB | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 84% | | |
| J052913CCVB | J052913CCVB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 47 | | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | XYLMP | p&m-Xylene | 92 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 100 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 84% | | |
| J052913CCVB | J052913CCVB | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913CCVB | J052913CCVB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 102% | | |
| J052913CCVB | J052913CCVB | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 90% | | |
| J052913CCVB | J052913CCVB | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | ORG | 135-98-8 | sec-Butylbenzene | 48 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |
| J052913CCVB | J052913CCVB | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 99-87-6 | p-Isopropltoluene | 46 | | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 92% | | |
| J052913CCVB | J052913CCVB | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 100% | | |
| J052913CCVB | J052913CCVB | ORG | 95-50-1 | 1,2-Dichlorobenzene | 51 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 102% | | |
| J052913CCVB | J052913CCVB | ORG | 104-51-8 | n-Butylbenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 104% | | |
| J052913CCVB | J052913CCVB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 44 | | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 88% | | |
| J052913CCVB | J052913CCVB | ORG | 87-68-3 | Hexachlorobutadiene | 55 | | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 110% | | |
| J052913CCVB | J052913CCVB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 47 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 94% | | |
| J052913CCVB | J052913CCVB | ORG | 91-20-3 | Naphthalene | 39 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 78% | | |
| J052913CCVB | J052913CCVB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 43 | | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 86% | | |
| J052913CCVB | J052913CCVB | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 98% | | |
| J052913CCVB | J052913CCVB | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8501 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913MBKB | J052913MBKB | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913MBKB | J052913MBKB | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | | | | |
| J052913MBKB | J052913MBKB | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | 50 | 102% | | |
| J052913MBKB | J052913MBKB | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | 50 | 100% | | |
| J052913MBKB | J052913MBKB | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | 50 | 98% | | |
| J052913MBKB | J052913MBKB | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8502 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913ALCS | J052913ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 34 | | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 68% | | |
| J052913ALCS | J052913ALCS | ORG | 74-87-3 | Chloromethane | 35 | | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 70% | | |
| J052913ALCS | J052913ALCS | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 80% | | |
| J052913ALCS | J052913ALCS | ORG | 74-83-9 | Bromomethane | 47 | | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 75-00-3 | Chloroethane | 53 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 106% | | |
| J052913ALCS | J052913ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 48 | | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 38 | | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 76% | | |
| J052913ALCS | J052913ALCS | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 86% | | |
| J052913ALCS | J052913ALCS | ORG | 67-64-1 | Acetone | 49 | | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 98% | | |
| J052913ALCS | J052913ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 45 | | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 98% | | |
| J052913ALCS | J052913ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 46 | | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | ORG | 74-97-5 | Bromochloromethane | 47 | | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 67-66-3 | Chloroform | 42 | | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 84% | | |
| J052913ALCS | J052913ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 47 | | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 78-93-3 | 2-Butanone | 55 | | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 110% | | |
| J052913ALCS | J052913ALCS | ORG | 56-23-5 | Carbon tetrachloride | 46 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 71-43-2 | Benzene | 42 | | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 84% | | |
| J052913ALCS | J052913ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 45 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 79-01-6 | Trichloroethene | 42 | | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 84% | | |
| J052913ALCS | J052913ALCS | ORG | 74-95-3 | Dibromomethane | 45 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 47 | | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 75-27-4 | Bromodichloromethane | 44 | | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 88% | | |
| J052913ALCS | J052913ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 108-88-3 | Toluene | 41 | | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 82% | | |
| J052913ALCS | J052913ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 55 | | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 110% | | |
| J052913ALCS | J052913ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 45 | | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 127-18-4 | Tetrachloroethene | 33 | | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 66% | | |
| J052913ALCS | J052913ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 47 | | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 124-48-1 | Dibromochloromethane | 46 | | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 48 | | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | ORG | 591-78-6 | 2-Hexanone | 56 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 112% | | |
| J052913ALCS | J052913ALCS | ORG | 100-41-4 | Ethylbenzene | 44 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 88% | | |
| J052913ALCS | J052913ALCS | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 82% | | |
| J052913ALCS | J052913ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 100 | 89% | | |
| J052913ALCS | J052913ALCS | ORG | 95-47-6 | o-Xylene | 41 | | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 82% | | |
| J052913ALCS | J052913ALCS | ORG | 100-42-5 | Styrene | 46 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 75-25-2 | Bromoform | 46 | | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 86% | | |
| J052913ALCS | J052913ALCS | ORG | 103-65-1 | n-Propylbenzene | 48 | | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913ALCS | J052913ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 102% | | |
| J052913ALCS | J052913ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 49 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 98% | | |
| J052913ALCS | J052913ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 88% | | |
| J052913ALCS | J052913ALCS | ORG | 98-06-6 | tert-Butylbenzene | 46 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 47 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | ORG | 135-98-8 | sec-Butylbenzene | 45 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 100% | | |
| J052913ALCS | J052913ALCS | ORG | 99-87-6 | p-Isopropltoluene | 45 | | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 90% | | |
| J052913ALCS | J052913ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 100% | | |
| J052913ALCS | J052913ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 50 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 100% | | |
| J052913ALCS | J052913ALCS | ORG | 104-51-8 | n-Butylbenzene | 49 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 98% | | |
| J052913ALCS | J052913ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 48 | | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 50 | | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 100% | | |
| J052913ALCS | J052913ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 48 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | ORG | 91-20-3 | Naphthalene | 46 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 92% | | |
| J052913ALCS | J052913ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 47 | | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 94% | | |
| J052913ALCS | J052913ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 102% | | |
| J052913ALCS | J052913ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |
| J052913ALCS | J052913ALCS | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8503 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913ALCD | J052913ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 34 | | ug/L | 5 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 68% | 0% | |
| J052913ALCD | J052913ALCD | ORG | 74-87-3 | Chloromethane | 38 | | ug/L | 5 | 0.43 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 76% | 8% | |
| J052913ALCD | J052913ALCD | ORG | 75-01-4 | Vinyl chloride | 41 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 82% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 74-83-9 | Bromomethane | 48 | | ug/L | 5 | 0.50 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 75-00-3 | Chloroethane | 54 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 108% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 50 | | ug/L | 5 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 41 | | ug/L | 1 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 82% | 8% | |
| J052913ALCD | J052913ALCD | ORG | 75-09-2 | Methylene chloride | 45 | | ug/L | 5 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 90% | 5% | |
| J052913ALCD | J052913ALCD | ORG | 67-64-1 | Acetone | 56 | | ug/L | 10 | 1.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 112% | 13% | |
| J052913ALCD | J052913ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 1634-04-4 | MTBE | 51 | | ug/L | 5 | 0.61 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 102% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 50 | | ug/L | 1 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 74-97-5 | Bromochloromethane | 48 | | ug/L | 10 | 0.81 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 67-66-3 | Chloroform | 44 | | ug/L | 2 | 0.41 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 88% | 5% | |
| J052913ALCD | J052913ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 78-93-3 | 2-Butanone | 57 | | ug/L | 1 | 0.17 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 114% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 56-23-5 | Carbon tetrachloride | 47 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 94% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 71-43-2 | Benzene | 44 | | ug/L | 1 | 0.14 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 88% | 5% | |
| J052913ALCD | J052913ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 94% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 79-01-6 | Trichloroethene | 44 | | ug/L | 1 | 0.36 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 88% | 5% | |
| J052913ALCD | J052913ALCD | ORG | 74-95-3 | Dibromomethane | 48 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 49 | | ug/L | 1 | 0.18 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 92% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 108-88-3 | Toluene | 43 | | ug/L | 5 | 0.74 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 86% | 5% | |
| J052913ALCD | J052913ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 54 | | ug/L | 1 | 0.21 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 108% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 94% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 127-18-4 | Tetrachloroethene | 36 | | ug/L | 1 | 0.49 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 72% | 9% | |
| J052913ALCD | J052913ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 124-48-1 | Dibromochloromethane | 49 | | ug/L | 5 | 0.69 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 104% | 8% | |
| J052913ALCD | J052913ALCD | ORG | 591-78-6 | 2-Hexanone | 57 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 114% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 100-41-4 | Ethylbenzene | 43 | | ug/L | 1 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 86% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 108-90-7 | Chlorobenzene | 42 | | ug/L | 1 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 84% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 90% | 0% | |
| J052913ALCD | J052913ALCD | ORG | XYLMP | p&m-Xylene | 95 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 100 | 95% | 7% | |
| J052913ALCD | J052913ALCD | ORG | 95-47-6 | o-Xylene | 44 | | ug/L | 1 | 0.13 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 88% | 7% | |
| J052913ALCD | J052913ALCD | ORG | 100-42-5 | Styrene | 49 | | ug/L | 1 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 75-25-2 | Bromoform | 50 | | ug/L | 2 | 0.47 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 8% | |
| J052913ALCD | J052913ALCD | ORG | 98-82-8 | Isopropylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 92% | 7% | |
| J052913ALCD | J052913ALCD | ORG | 103-65-1 | n-Propylbenzene | 50 | | ug/L | 2 | 0.27 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J052913ALCD | J052913ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 108% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 53 | | ug/L | 2 | 0.29 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 106% | 8% | |
| J052913ALCD | J052913ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 46 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 92% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 135-98-8 | sec-Butylbenzene | 47 | | ug/L | 2 | 0.32 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 94% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 50 | | ug/L | 2 | 0.22 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 0% | |
| J052913ALCD | J052913ALCD | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 94% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 51 | | ug/L | 2 | 0.33 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 102% | 2% | |
| J052913ALCD | J052913ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 106% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 104-51-8 | n-Butylbenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 102% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | | ug/L | 5 | 1.59 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 102% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 53 | | ug/L | 5 | 0.65 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 106% | 6% | |
| J052913ALCD | J052913ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 100% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 91-20-3 | Naphthalene | 48 | | ug/L | 5 | 0.56 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 4% | |
| J052913ALCD | J052913ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 49 | | ug/L | 5 | 0.23 | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 4% | |
| J052913ALCD | J052913ALCD | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 102% | 0% | |
| J052913ALCD | J052913ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 104% | 8% | |
| J052913ALCD | J052913ALCD | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 96% | 0% | |
| J052913ALCD | J052913ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/29/2013 | 5/29/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8504 | 50 | 98% | 2% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268MS | OB-166 R | ORG | 75-71-8 | Dichlorodifluoromethane | 3000 | | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 60% | | |
| NAL13026-268MS | OB-166 R | ORG | 74-87-3 | Chloromethane | 3600 | | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 72% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 74% | | |
| NAL13026-268MS | OB-166 R | ORG | 74-83-9 | Bromomethane | 4200 | | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-00-3 | Chloroethane | 5000 | | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 100% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-69-4 | Trichlorofluoromethane | 4400 | | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-35-4 | 1,1-Dichloroethene | 4000 | | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 80% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-09-2 | Methylene chloride | 4500 | | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 90% | | |
| NAL13026-268MS | OB-166 R | ORG | 67-64-1 | Acetone | 36000 | | ug/L | 1000 | 155.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | -260% | | 49000 |
| NAL13026-268MS | OB-166 R | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4400 | | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | |
| NAL13026-268MS | OB-166 R | ORG | 1634-04-4 | MTBE | 4700 | | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 94% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-34-3 | 1,1-Dichloroethane | 4600 | | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 92% | | |
| NAL13026-268MS | OB-166 R | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 74-97-5 | Bromochloromethane | 4900 | | ug/L | 1000 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 67-66-3 | Chloroform | 4200 | | ug/L | 200 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | |
| NAL13026-268MS | OB-166 R | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4800 | | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 78-93-3 | 2-Butanone | 22000 | | ug/L | 100 | 16.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | -120% | | 28000 |
| NAL13026-268MS | OB-166 R | ORG | 56-23-5 | Carbon tetrachloride | 4600 | | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 92% | | |
| NAL13026-268MS | OB-166 R | ORG | 71-43-2 | Benzene | 4400 | | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 87% | | 27 |
| NAL13026-268MS | OB-166 R | ORG | 107-06-2 | 1,2-Dichloroethane | 4600 | | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 92% | | |
| NAL13026-268MS | OB-166 R | ORG | 79-01-6 | Trichloroethene | 4200 | | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | |
| NAL13026-268MS | OB-166 R | ORG | 74-95-3 | Dibromomethane | 4600 | | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 92% | | |
| NAL13026-268MS | OB-166 R | ORG | 78-87-5 | 1,2-Dichloropropane | 4800 | | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 75-27-4 | Bromodichloromethane | 4300 | | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 86% | | |
| NAL13026-268MS | OB-166 R | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4500 | | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 90% | | |
| NAL13026-268MS | OB-166 R | ORG | 108-88-3 | Toluene | 4200 | | ug/L | 500 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | |
| NAL13026-268MS | OB-166 R | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5000 | | ug/L | 100 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 86% | | 680 |
| NAL13026-268MS | OB-166 R | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4400 | | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | |
| NAL13026-268MS | OB-166 R | ORG | 127-18-4 | Tetrachloroethene | 3000 | | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 60% | | |
| NAL13026-268MS | OB-166 R | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 124-48-1 | Dibromochloromethane | 4600 | | ug/L | 500 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 92% | | |
| NAL13026-268MS | OB-166 R | ORG | 106-93-4 | 1,2-Dibromoethane | 4800 | | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 591-78-6 | 2-Hexanone | 3900 | | ug/L | 200 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 78% | | |
| NAL13026-268MS | OB-166 R | ORG | 100-41-4 | Ethylbenzene | 4200 | | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | |
| NAL13026-268MS | OB-166 R | ORG | 108-90-7 | Chlorobenzene | 4100 | | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 82% | | |
| NAL13026-268MS | OB-166 R | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4500 | | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 90% | | |
| NAL13026-268MS | OB-166 R | ORG | XYLMP | p&m-Xylene | 9000 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 10000 | 87% | | 340 |
| NAL13026-268MS | OB-166 R | ORG | 95-47-6 | o-Xylene | 4200 | | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 84% | | 12 |
| NAL13026-268MS | OB-166 R | ORG | 100-42-5 | Styrene | 4700 | | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 94% | | 25 |
| NAL13026-268MS | OB-166 R | ORG | 75-25-2 | Bromoform | 4800 | | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 86% | | |
| NAL13026-268MS | OB-166 R | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268MS | OB-166 R | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5300 | | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 106% | | |
| NAL13026-268MS | OB-166 R | ORG | 96-18-4 | 1,2,3-Trichloropropane | 4900 | | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4400 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | |
| NAL13026-268MS | OB-166 R | ORG | 98-06-6 | tert-Butylbenzene | 4700 | | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 94% | | |
| NAL13026-268MS | OB-166 R | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 94% | | 11 |
| NAL13026-268MS | OB-166 R | ORG | 135-98-8 | sec-Butylbenzene | 4400 | | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | |
| NAL13026-268MS | OB-166 R | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5000 | | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 100% | | |
| NAL13026-268MS | OB-166 R | ORG | 99-87-6 | p-Isopropltoluene | 4500 | | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 88% | | 96 |
| NAL13026-268MS | OB-166 R | ORG | 106-46-7 | 1,4-Dichlorobenzene | 4900 | | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5000 | | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 100% | | |
| NAL13026-268MS | OB-166 R | ORG | 104-51-8 | n-Butylbenzene | 4800 | | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 4900 | | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 87-68-3 | Hexachlorobutadiene | 4900 | | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 98% | | |
| NAL13026-268MS | OB-166 R | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4800 | | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 96% | | |
| NAL13026-268MS | OB-166 R | ORG | 91-20-3 | Naphthalene | 4800 | | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 91% | | 270 |
| NAL13026-268MS | OB-166 R | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4700 | | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 5000 | 94% | | |
| NAL13026-268MS | OB-166 R | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 50 | 102% | | |
| NAL13026-268MS | OB-166 R | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 50 | 98% | | |
| NAL13026-268MS | OB-166 R | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 50 | 94% | | |
| NAL13026-268MS | OB-166 R | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8505 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268MSD | OB-166 R | ORG | 75-71-8 | Dichlorodifluoromethane | 3000 | | ug/L | 500 | 29.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 60% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 74-87-3 | Chloromethane | 3800 | | ug/L | 500 | 43.07 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 76% | 5% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-01-4 | Vinyl chloride | 3700 | | ug/L | 200 | 31.86 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 74% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 74-83-9 | Bromomethane | 4600 | | ug/L | 500 | 50.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 92% | 9% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-00-3 | Chloroethane | 5200 | | ug/L | 500 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 104% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-69-4 | Trichlorofluoromethane | 4700 | | ug/L | 500 | 19.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-35-4 | 1,1-Dichloroethene | 3900 | | ug/L | 100 | 47.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 78% | 3% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-09-2 | Methylene chloride | 4500 | | ug/L | 500 | 26.46 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 90% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 67-64-1 | Acetone | 35000 | | ug/L | 1000 | 155.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | -280% | 3% | 49000 |
| NAL13026-268MSD | OB-166 R | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4400 | | ug/L | 100 | 55.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 88% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 1634-04-4 | MTBE | 5000 | | ug/L | 500 | 61.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 100% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-34-3 | 1,1-Dichloroethane | 4700 | | ug/L | 100 | 52.66 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 156-59-2 | cis-1,2-Dichloroethene | 4900 | | ug/L | 100 | 32.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 98% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 74-97-5 | Bromochloromethane | 4700 | | ug/L | 1000 | 81.18 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 67-66-3 | Chloroform | 4200 | | ug/L | 200 | 41.37 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 84% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 100% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 78-93-3 | 2-Butanone | 21000 | | ug/L | 100 | 16.65 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | -140% | 5% | 28000 |
| NAL13026-268MSD | OB-166 R | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 71-43-2 | Benzene | 4600 | | ug/L | 100 | 13.53 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 91% | 4% | 27 |
| NAL13026-268MSD | OB-166 R | ORG | 107-06-2 | 1,2-Dichloroethane | 4800 | | ug/L | 100 | 20.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 79-01-6 | Trichloroethene | 4500 | | ug/L | 100 | 36.33 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 90% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 74-95-3 | Dibromomethane | 4800 | | ug/L | 200 | 32.20 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 78-87-5 | 1,2-Dichloropropane | 4900 | | ug/L | 100 | 18.17 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 98% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 75-27-4 | Bromodichloromethane | 4600 | | ug/L | 200 | 11.58 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 92% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4900 | | ug/L | 100 | 25.01 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 98% | 9% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 108-88-3 | Toluene | 4500 | | ug/L | 500 | 74.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 90% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5400 | | ug/L | 100 | 20.96 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 8% | 680 |
| NAL13026-268MSD | OB-166 R | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 127-18-4 | Tetrachloroethene | 3300 | | ug/L | 100 | 48.56 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 66% | 10% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 0% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 124-48-1 | Dibromochloromethane | 4800 | | ug/L | 500 | 68.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 106-93-4 | 1,2-Dibromoethane | 5100 | | ug/L | 200 | 29.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 591-78-6 | 2-Hexanone | 4300 | | ug/L | 200 | 26.49 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 86% | 10% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 100-41-4 | Ethylbenzene | 4500 | | ug/L | 100 | 25.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 90% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 108-90-7 | Chlorobenzene | 4300 | | ug/L | 100 | 27.52 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 86% | 5% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4700 | | ug/L | 200 | 19.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | XYLMP | p&m-Xylene | 9600 | | ug/L | 200 | 26.14 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 10000 | 93% | 6% | 340 |
| NAL13026-268MSD | OB-166 R | ORG | 95-47-6 | o-Xylene | 4500 | | ug/L | 100 | 12.90 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 90% | 7% | 12 |
| NAL13026-268MSD | OB-166 R | ORG | 100-42-5 | Styrene | 5100 | | ug/L | 100 | 20.23 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 8% | 25 |
| NAL13026-268MSD | OB-166 R | ORG | 75-25-2 | Bromoform | 5100 | | ug/L | 200 | 46.83 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 98-82-8 | Isopropylbenzene | 4700 | | ug/L | 200 | 20.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 9% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 103-65-1 | n-Propylbenzene | 5100 | | ug/L | 200 | 27.00 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 6% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-268MSD | OB-166 R | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5600 | | ug/L | 200 | 29.16 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 112% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5300 | | ug/L | 200 | 29.47 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 106% | 8% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 94% | 7% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 98-06-6 | tert-Butylbenzene | 5000 | | ug/L | 200 | 32.61 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 100% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 100% | 6% | 11 |
| NAL13026-268MSD | OB-166 R | ORG | 135-98-8 | sec-Butylbenzene | 4800 | | ug/L | 200 | 32.34 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 9% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5100 | | ug/L | 200 | 22.21 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 99-87-6 | p-Isopropltoluene | 4700 | | ug/L | 200 | 25.48 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 92% | 4% | 96 |
| NAL13026-268MSD | OB-166 R | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5200 | | ug/L | 200 | 33.03 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 104% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5300 | | ug/L | 200 | 26.38 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 106% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 102% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 5000 | | ug/L | 500 | 159.11 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 100% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 104% | 6% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 4900 | | ug/L | 500 | 27.63 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 98% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | ORG | 91-20-3 | Naphthalene | 5000 | | ug/L | 500 | 56.04 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 95% | 4% | 270 |
| NAL13026-268MSD | OB-166 R | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 4800 | | ug/L | 500 | 23.28 | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 5000 | 96% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 50 | 100% | 2% | 0 |
| NAL13026-268MSD | OB-166 R | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 53 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 50 | 106% | 8% | 0 |
| NAL13026-268MSD | OB-166 R | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 50 | 98% | 4% | 0 |
| NAL13026-268MSD | OB-166 R | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/29/2013 | 5/29/2013 | 5/29/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8506 | 50 | 100% | 6% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271 | OB-170 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 67-64-1 | Acetone | 48000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8516 | | | | |
| NAL13026-271 | OB-170 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 16.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 78-93-3 | 2-Butanone | 29000 | D | ug/L | 10000 | 811.80 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8516 | | | | |
| NAL13026-271 | OB-170 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 108-88-3 | Toluene | 16 | J | ug/L | 100 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 430 | J | ug/L | 500 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | XYLMP | p&m-Xylene | 350 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 95-47-6 | o-Xylene | 16 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 100-42-5 | Styrene | 20 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 98-82-8 | Isopropylbenzene | 25 | J | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271 | OB-170 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 34 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 100 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 135-98-8 | sec-Butylbenzene | 25 | J | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 99-87-6 | p-Isopropltoluene | 720 | | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 75 | J | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 91-20-3 | Naphthalene | 700 | | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 130 | J | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | | | | |
| NAL13026-271 | OB-170 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | 50 | 102% | | |
| NAL13026-271 | OB-170 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | 50 | 98% | | |
| NAL13026-271 | OB-170 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | 50 | 98% | | |
| NAL13026-271 | OB-170 | STD | 460-00-4 | Bromofluorobenzene | 46 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8510 | 50 | 92% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-272 | 171-ST T1 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 67-64-1 | Acetone | 110000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8517 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 78-93-3 | 2-Butanone | 71000 | D | ug/L | 10000 | 166.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8517 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 71-43-2 | Benzene | 83 | J | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 108-88-3 | Toluene | 19 | J | ug/L | 100 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2200 | | ug/L | 500 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | XYLMP | p&m-Xylene | 340 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 95-47-6 | o-Xylene | 15 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 100-42-5 | Styrene | 10 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-272 | 171-ST T1 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 44 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 99-87-6 | p-Isopropltoluene | 220 | | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 91-20-3 | Naphthalene | 300 | J | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | | | | |
| NAL13026-272 | 171-ST T1 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | 50 | 100% | | |
| NAL13026-272 | 171-ST T1 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | 50 | 100% | | |
| NAL13026-272 | 171-ST T1 | STD | 2037-26-5 | Toluene d8 | 47 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | 50 | 94% | | |
| NAL13026-272 | 171-ST T1 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8511 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-273 | 171-ST T2 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 67-64-1 | Acetone | 98000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8518 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 78-93-3 | 2-Butanone | 69000 | D | ug/L | 10000 | 166.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8518 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 71-43-2 | Benzene | 48 | J | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 108-88-3 | Toluene | 19 | J | ug/L | 100 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 2300 | | ug/L | 500 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 591-78-6 | 2-Hexanone | 120 | JX+ | ug/L | 500 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | XYLMP | p&m-Xylene | 370 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 95-47-6 | o-Xylene | 18 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 100-42-5 | Styrene | 22 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 98-82-8 | Isopropylbenzene | 18 | J | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 103-65-1 | n-Propylbenzene | 53 | J | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-273 | 171-ST T2 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 23 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 98-06-6 | tert-Butylbenzene | 6 | J | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 14 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 135-98-8 | sec-Butylbenzene | 22 | J | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 99-87-6 | p-Isopropltoluene | 46 | J | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 104-51-8 | n-Butylbenzene | 39 | J | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 91-20-3 | Naphthalene | 190 | J | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | | | | |
| NAL13026-273 | 171-ST T2 | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | 50 | 98% | | |
| NAL13026-273 | 171-ST T2 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | 50 | 96% | | |
| NAL13026-273 | 171-ST T2 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | 50 | 96% | | |
| NAL13026-273 | 171-ST T2 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8512 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-274 | 171-ST T3 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 67-64-1 | Acetone | 96000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8519 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 78-93-3 | 2-Butanone | 63000 | D | ug/L | 10000 | 166.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8519 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 108-88-3 | Toluene | 17 | J | ug/L | 100 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1900 | | ug/L | 500 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 591-78-6 | 2-Hexanone | 430 | JX+ | ug/L | 500 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | XYLMP | p&m-Xylene | 360 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 95-47-6 | o-Xylene | 27 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 100-42-5 | Styrene | 23 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 98-82-8 | Isopropylbenzene | 21 | J | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 103-65-1 | n-Propylbenzene | 57 | J | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-274 | 171-ST T3 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 43 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 135-98-8 | sec-Butylbenzene | 25 | J | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 99-87-6 | p-Isopropltoluene | 175 | J | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 104-51-8 | n-Butylbenzene | 48 | J | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 91-20-3 | Naphthalene | 460 | J | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | | | | |
| NAL13026-274 | 171-ST T3 | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | 50 | 100% | | |
| NAL13026-274 | 171-ST T3 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | 50 | 98% | | |
| NAL13026-274 | 171-ST T3 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | 50 | 96% | | |
| NAL13026-274 | 171-ST T3 | STD | 460-00-4 | Bromofluorobenzene | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8513 | 50 | 100% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-275 | 171-ST T4 | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 67-64-1 | Acetone | 92000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8520 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 78-93-3 | 2-Butanone | 52000 | D | ug/L | 10000 | 166.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8520 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 71-43-2 | Benzene | | U | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 108-88-3 | Toluene | 32 | J | ug/L | 100 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 1600 | | ug/L | 500 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 591-78-6 | 2-Hexanone | 540 | X+ | ug/L | 500 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 100-41-4 | Ethylbenzene | 30 | J | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | XYLMP | p&m-Xylene | 390 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 95-47-6 | o-Xylene | 30 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 100-42-5 | Styrene | 37 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 98-82-8 | Isopropylbenzene | 32 | J | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 103-65-1 | n-Propylbenzene | 72 | J | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-275 | 171-ST T4 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 98-06-6 | tert-Butylbenzene | 24 | J | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 42 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 135-98-8 | sec-Butylbenzene | 40 | J | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 99-87-6 | p-Isopropltoluene | 110 | J | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 104-51-8 | n-Butylbenzene | 68 | J | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 60 | J | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 91-20-3 | Naphthalene | 400 | J | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | | | | |
| NAL13026-275 | 171-ST T4 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | 50 | 102% | | |
| NAL13026-275 | 171-ST T4 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | 50 | 100% | | |
| NAL13026-275 | 171-ST T4 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | 50 | 96% | | |
| NAL13026-275 | 171-ST T4 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8514 | 50 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-276 | 172-MSD | ORG | 75-71-8 | Dichlorodifluoromethane | | UX- | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 74-87-3 | Chloromethane | | U | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 74-83-9 | Bromomethane | | UX- | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-00-3 | Chloroethane | | U | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-35-4 | 1,1-Dichloroethene | | UX- | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 67-64-1 | Acetone | 41000 | D | ug/L | 10000 | 1556.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8521 | | | | |
| NAL13026-276 | 172-MSD | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 1634-04-4 | MTBE | | U | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 200 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 67-66-3 | Chloroform | | U | ug/L | 100 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 78-93-3 | 2-Butanone | 24000 | D | ug/L | 10000 | 166.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 1000 | NA | 5.0 | NA | SW8260B | NALJ8521 | | | | |
| NAL13026-276 | 172-MSD | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 71-43-2 | Benzene | 17 | J | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 108-88-3 | Toluene | 18 | J | ug/L | 100 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 670 | | ug/L | 500 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 127-18-4 | Tetrachloroethene | | UX- | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 200 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 500 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 100-41-4 | Ethylbenzene | 26 | J | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | XYLMP | p&m-Xylene | 380 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 95-47-6 | o-Xylene | 29 | J | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 100-42-5 | Styrene | 30 | J | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 75-25-2 | Bromoform | | U | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 98-82-8 | Isopropylbenzene | 28 | J | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 103-65-1 | n-Propylbenzene | 68 | J | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-276 | 172-MSD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 60 | J | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 135-98-8 | sec-Butylbenzene | 41 | J | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 99-87-6 | p-Isopropltoluene | 320 | | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 16 | J | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 104-51-8 | n-Butylbenzene | 68 | J | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 91-20-3 | Naphthalene | 550 | | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | | | | |
| NAL13026-276 | 172-MSD | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | 50 | 100% | | |
| NAL13026-276 | 172-MSD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 50 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | 50 | 100% | | |
| NAL13026-276 | 172-MSD | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | 50 | 98% | | |
| NAL13026-276 | 172-MSD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8515 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013CCVA | J053013CCVA | ORG | 75-71-8 | Dichlorodifluoromethane | 31 | | ug/L | 5 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 62% | | |
| J053013CCVA | J053013CCVA | ORG | 74-87-3 | Chloromethane | 45 | | ug/L | 5 | 0.43 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | ORG | 75-01-4 | Vinyl chloride | 43 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 86% | | |
| J053013CCVA | J053013CCVA | ORG | 74-83-9 | Bromomethane | 38 | | ug/L | 5 | 0.50 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 76% | | |
| J053013CCVA | J053013CCVA | ORG | 75-00-3 | Chloroethane | 49 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | ORG | 75-69-4 | Trichlorofluoromethane | 43 | | ug/L | 5 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 86% | | |
| J053013CCVA | J053013CCVA | ORG | 75-35-4 | 1,1-Dichloroethene | 38 | | ug/L | 1 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 76% | | |
| J053013CCVA | J053013CCVA | ORG | 75-09-2 | Methylene chloride | 41 | | ug/L | 5 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 82% | | |
| J053013CCVA | J053013CCVA | ORG | 67-64-1 | Acetone | 44 | | ug/L | 10 | 1.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 88% | | |
| J053013CCVA | J053013CCVA | ORG | 156-60-5 | trans-1,2-Dichloroethene | 48 | | ug/L | 1 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 1634-04-4 | MTBE | 55 | | ug/L | 5 | 0.61 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 110% | | |
| J053013CCVA | J053013CCVA | ORG | 75-34-3 | 1,1-Dichloroethane | 49 | | ug/L | 1 | 0.53 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | ORG | 156-59-2 | cis-1,2-Dichloroethene | 49 | | ug/L | 1 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | ORG | 67-66-3 | Chloroform | 42 | | ug/L | 2 | 0.41 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 84% | | |
| J053013CCVA | J053013CCVA | ORG | 71-55-6 | 1,1,1-Trichloroethane | 47 | | ug/L | 1 | 0.16 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 94% | | |
| J053013CCVA | J053013CCVA | ORG | 78-93-3 | 2-Butanone | 54 | | ug/L | 1 | 0.17 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 108% | | |
| J053013CCVA | J053013CCVA | ORG | 56-23-5 | Carbon tetrachloride | 45 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | ORG | 71-43-2 | Benzene | 45 | | ug/L | 1 | 0.14 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | ORG | 107-06-2 | 1,2-Dichloroethane | 44 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 88% | | |
| J053013CCVA | J053013CCVA | ORG | 79-01-6 | Trichloroethene | 43 | | ug/L | 1 | 0.36 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 86% | | |
| J053013CCVA | J053013CCVA | ORG | 74-95-3 | Dibromomethane | 46 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 92% | | |
| J053013CCVA | J053013CCVA | ORG | 78-87-5 | 1,2-Dichloropropane | 50 | | ug/L | 1 | 0.18 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 100% | | |
| J053013CCVA | J053013CCVA | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 92% | | |
| J053013CCVA | J053013CCVA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 51 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 102% | | |
| J053013CCVA | J053013CCVA | ORG | 108-88-3 | Toluene | 44 | | ug/L | 5 | 0.74 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 88% | | |
| J053013CCVA | J053013CCVA | ORG | 108-10-1 | 4-Methyl-2-pentanone | 58 | | ug/L | 1 | 0.21 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 116% | | |
| J053013CCVA | J053013CCVA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 47 | | ug/L | 1 | 0.31 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 94% | | |
| J053013CCVA | J053013CCVA | ORG | 127-18-4 | Tetrachloroethene | 28 | | ug/L | 1 | 0.49 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 56% | | |
| J053013CCVA | J053013CCVA | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 106-93-4 | 1,2-Dibromoethane | 49 | | ug/L | 2 | 0.30 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | ORG | 591-78-6 | 2-Hexanone | 63 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 126% | | |
| J053013CCVA | J053013CCVA | ORG | 100-41-4 | Ethylbenzene | 42 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 84% | | |
| J053013CCVA | J053013CCVA | ORG | 108-90-7 | Chlorobenzene | 41 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 82% | | |
| J053013CCVA | J053013CCVA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 44 | | ug/L | 2 | 0.19 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 88% | | |
| J053013CCVA | J053013CCVA | ORG | XYLMP | p&m-Xylene | 89 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 100 | 89% | | |
| J053013CCVA | J053013CCVA | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 84% | | |
| J053013CCVA | J053013CCVA | ORG | 100-42-5 | Styrene | 48 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 75-25-2 | Bromoform | 45 | | ug/L | 2 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | ORG | 98-82-8 | Isopropylbenzene | 44 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 88% | | |
| J053013CCVA | J053013CCVA | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013CCVA | J053013CCVA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 102% | | |
| J053013CCVA | J053013CCVA | ORG | 96-18-4 | 1,2,3-Trichloropropane | 48 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | ORG | 98-06-6 | tert-Butylbenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 48 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 92% | | |
| J053013CCVA | J053013CCVA | ORG | 541-73-1 | 1,3-Dichlorobenzene | 52 | | ug/L | 2 | 0.22 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 104% | | |
| J053013CCVA | J053013CCVA | ORG | 99-87-6 | p-Isopropltoluene | 47 | | ug/L | 2 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 94% | | |
| J053013CCVA | J053013CCVA | ORG | 106-46-7 | 1,4-Dichlorobenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 100% | | |
| J053013CCVA | J053013CCVA | ORG | 95-50-1 | 1,2-Dichlorobenzene | 54 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 108% | | |
| J053013CCVA | J053013CCVA | ORG | 104-51-8 | n-Butylbenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 100% | | |
| J053013CCVA | J053013CCVA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 46 | | ug/L | 5 | 1.59 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 92% | | |
| J053013CCVA | J053013CCVA | ORG | 87-68-3 | Hexachlorobutadiene | 56 | | ug/L | 5 | 0.65 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 112% | | |
| J053013CCVA | J053013CCVA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 51 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 102% | | |
| J053013CCVA | J053013CCVA | ORG | 91-20-3 | Naphthalene | 43 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 86% | | |
| J053013CCVA | J053013CCVA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 48 | | ug/L | 5 | 0.23 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 96% | | |
| J053013CCVA | J053013CCVA | STD | 1868-53-7 | Dibromofluoromethane | 49 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 45 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 90% | | |
| J053013CCVA | J053013CCVA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 98% | | |
| J053013CCVA | J053013CCVA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8508 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013MBKA | J053013MBKA | ORG | 75-71-8 | Dichlorodifluoromethane | | U | ug/L | 5 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 74-87-3 | Chloromethane | | U | ug/L | 5 | 0.43 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-01-4 | Vinyl chloride | | U | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 74-83-9 | Bromomethane | | U | ug/L | 5 | 0.50 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-00-3 | Chloroethane | | U | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-69-4 | Trichlorofluoromethane | | U | ug/L | 5 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-35-4 | 1,1-Dichloroethene | | U | ug/L | 1 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-09-2 | Methylene chloride | | U | ug/L | 5 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 67-64-1 | Acetone | | U | ug/L | 10 | 1.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 156-60-5 | trans-1,2-Dichloroethene | | U | ug/L | 1 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 1634-04-4 | MTBE | | U | ug/L | 5 | 0.61 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-34-3 | 1,1-Dichloroethane | | U | ug/L | 1 | 0.53 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 156-59-2 | cis-1,2-Dichloroethene | | U | ug/L | 1 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 74-97-5 | Bromochloromethane | | U | ug/L | 10 | 0.81 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 67-66-3 | Chloroform | | U | ug/L | 2 | 0.41 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 71-55-6 | 1,1,1-Trichloroethane | | U | ug/L | 1 | 0.16 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 78-93-3 | 2-Butanone | | U | ug/L | 1 | 0.17 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 56-23-5 | Carbon tetrachloride | | U | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 71-43-2 | Benzene | | U | ug/L | 1 | 0.14 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 107-06-2 | 1,2-Dichloroethane | | U | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 79-01-6 | Trichloroethene | | U | ug/L | 1 | 0.36 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 74-95-3 | Dibromomethane | | U | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 78-87-5 | 1,2-Dichloropropane | | U | ug/L | 1 | 0.18 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-27-4 | Bromodichloromethane | | U | ug/L | 2 | 0.12 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 10061-01-5 | cis-1,3-Dichloropropene | | U | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 108-88-3 | Toluene | | U | ug/L | 5 | 0.74 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 108-10-1 | 4-Methyl-2-pentanone | | U | ug/L | 1 | 0.21 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 10061-02-6 | trans-1,3-Dichloropropene | | U | ug/L | 1 | 0.31 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 127-18-4 | Tetrachloroethene | | U | ug/L | 1 | 0.49 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 79-00-5 | 1,1,2-Trichloroethane | | U | ug/L | 1 | 0.34 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 124-48-1 | Dibromochloromethane | | U | ug/L | 5 | 0.69 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 106-93-4 | 1,2-Dibromoethane | | U | ug/L | 2 | 0.30 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 591-78-6 | 2-Hexanone | | U | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 100-41-4 | Ethylbenzene | | U | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 108-90-7 | Chlorobenzene | | U | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | | U | ug/L | 2 | 0.19 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | XYLMP | p&m-Xylene | | U | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 95-47-6 | o-Xylene | | U | ug/L | 1 | 0.13 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 100-42-5 | Styrene | | U | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 75-25-2 | Bromoform | | U | ug/L | 2 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 98-82-8 | Isopropylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 103-65-1 | n-Propylbenzene | | U | ug/L | 2 | 0.27 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013MBKA | J053013MBKA | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | | U | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 96-18-4 | 1,2,3-Trichloropropane | | U | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 98-06-6 | tert-Butylbenzene | | U | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | | U | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 135-98-8 | sec-Butylbenzene | | U | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 541-73-1 | 1,3-Dichlorobenzene | | U | ug/L | 2 | 0.22 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 99-87-6 | p-Isopropltoluene | | U | ug/L | 2 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 106-46-7 | 1,4-Dichlorobenzene | | U | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 95-50-1 | 1,2-Dichlorobenzene | | U | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 104-51-8 | n-Butylbenzene | | U | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | | U | ug/L | 5 | 1.59 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 87-68-3 | Hexachlorobutadiene | | U | ug/L | 5 | 0.65 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | | U | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 91-20-3 | Naphthalene | | U | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | | U | ug/L | 5 | 0.23 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | | | | |
| J053013MBKA | J053013MBKA | STD | 1868-53-7 | Dibromofluoromethane | 50 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | 50 | 100% | | |
| J053013MBKA | J053013MBKA | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 49 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | 50 | 98% | | |
| J053013MBKA | J053013MBKA | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | 50 | 98% | | |
| J053013MBKA | J053013MBKA | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8509 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013ALCS | J053013ALCS | ORG | 75-71-8 | Dichlorodifluoromethane | 29 | | ug/L | 5 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 58% | | |
| J053013ALCS | J053013ALCS | ORG | 74-87-3 | Chloromethane | 34 | | ug/L | 5 | 0.43 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 68% | | |
| J053013ALCS | J053013ALCS | ORG | 75-01-4 | Vinyl chloride | 40 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 80% | | |
| J053013ALCS | J053013ALCS | ORG | 74-83-9 | Bromomethane | 42 | | ug/L | 5 | 0.50 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 84% | | |
| J053013ALCS | J053013ALCS | ORG | 75-00-3 | Chloroethane | 51 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 102% | | |
| J053013ALCS | J053013ALCS | ORG | 75-69-4 | Trichlorofluoromethane | 47 | | ug/L | 5 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |
| J053013ALCS | J053013ALCS | ORG | 75-35-4 | 1,1-Dichloroethene | 40 | | ug/L | 1 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 80% | | |
| J053013ALCS | J053013ALCS | ORG | 75-09-2 | Methylene chloride | 47 | | ug/L | 5 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |
| J053013ALCS | J053013ALCS | ORG | 67-64-1 | Acetone | 57 | | ug/L | 10 | 1.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 114% | | |
| J053013ALCS | J053013ALCS | ORG | 156-60-5 | trans-1,2-Dichloroethene | 42 | | ug/L | 1 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 84% | | |
| J053013ALCS | J053013ALCS | ORG | 1634-04-4 | MTBE | 49 | | ug/L | 5 | 0.61 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 98% | | |
| J053013ALCS | J053013ALCS | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |
| J053013ALCS | J053013ALCS | ORG | 156-59-2 | cis-1,2-Dichloroethene | 52 | | ug/L | 1 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 104% | | |
| J053013ALCS | J053013ALCS | ORG | 74-97-5 | Bromochloromethane | 51 | | ug/L | 10 | 0.81 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 102% | | |
| J053013ALCS | J053013ALCS | ORG | 67-66-3 | Chloroform | 45 | | ug/L | 2 | 0.41 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 90% | | |
| J053013ALCS | J053013ALCS | ORG | 71-55-6 | 1,1,1-Trichloroethane | 49 | | ug/L | 1 | 0.16 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 98% | | |
| J053013ALCS | J053013ALCS | ORG | 78-93-3 | 2-Butanone | 64 | | ug/L | 1 | 0.17 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 128% | | |
| J053013ALCS | J053013ALCS | ORG | 56-23-5 | Carbon tetrachloride | 47 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |
| J053013ALCS | J053013ALCS | ORG | 71-43-2 | Benzene | 44 | | ug/L | 1 | 0.14 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 88% | | |
| J053013ALCS | J053013ALCS | ORG | 107-06-2 | 1,2-Dichloroethane | 48 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 79-01-6 | Trichloroethene | 45 | | ug/L | 1 | 0.36 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 90% | | |
| J053013ALCS | J053013ALCS | ORG | 74-95-3 | Dibromomethane | 48 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 78-87-5 | 1,2-Dichloropropane | 48 | | ug/L | 1 | 0.18 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 75-27-4 | Bromodichloromethane | 46 | | ug/L | 2 | 0.12 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 92% | | |
| J053013ALCS | J053013ALCS | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 48 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 108-88-3 | Toluene | 42 | | ug/L | 5 | 0.74 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 84% | | |
| J053013ALCS | J053013ALCS | ORG | 108-10-1 | 4-Methyl-2-pentanone | 65 | | ug/L | 1 | 0.21 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 130% | | |
| J053013ALCS | J053013ALCS | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 49 | | ug/L | 1 | 0.31 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 98% | | |
| J053013ALCS | J053013ALCS | ORG | 127-18-4 | Tetrachloroethene | 27 | | ug/L | 1 | 0.49 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 54% | | |
| J053013ALCS | J053013ALCS | ORG | 79-00-5 | 1,1,2-Trichloroethane | 48 | | ug/L | 1 | 0.34 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 124-48-1 | Dibromochloromethane | 48 | | ug/L | 5 | 0.69 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 106-93-4 | 1,2-Dibromoethane | 52 | | ug/L | 2 | 0.30 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 104% | | |
| J053013ALCS | J053013ALCS | ORG | 591-78-6 | 2-Hexanone | 69 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 138% | | |
| J053013ALCS | J053013ALCS | ORG | 100-41-4 | Ethylbenzene | 41 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 82% | | |
| J053013ALCS | J053013ALCS | ORG | 108-90-7 | Chlorobenzene | 40 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 80% | | |
| J053013ALCS | J053013ALCS | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 43 | | ug/L | 2 | 0.19 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 86% | | |
| J053013ALCS | J053013ALCS | ORG | XYLMP | p&m-Xylene | 90 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 100 | 90% | | |
| J053013ALCS | J053013ALCS | ORG | 95-47-6 | o-Xylene | 42 | | ug/L | 1 | 0.13 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 84% | | |
| J053013ALCS | J053013ALCS | ORG | 100-42-5 | Styrene | 47 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |
| J053013ALCS | J053013ALCS | ORG | 75-25-2 | Bromoform | 48 | | ug/L | 2 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 98-82-8 | Isopropylbenzene | 43 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 86% | | |
| J053013ALCS | J053013ALCS | ORG | 103-65-1 | n-Propylbenzene | 49 | | ug/L | 2 | 0.27 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 98% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013ALCS | J053013ALCS | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 57 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 114% | | |
| J053013ALCS | J053013ALCS | ORG | 96-18-4 | 1,2,3-Trichloropropane | 53 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 106% | | |
| J053013ALCS | J053013ALCS | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 90% | | |
| J053013ALCS | J053013ALCS | ORG | 98-06-6 | tert-Butylbenzene | 50 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 100% | | |
| J053013ALCS | J053013ALCS | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 49 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 98% | | |
| J053013ALCS | J053013ALCS | ORG | 135-98-8 | sec-Butylbenzene | 46 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 92% | | |
| J053013ALCS | J053013ALCS | ORG | 541-73-1 | 1,3-Dichlorobenzene | 51 | | ug/L | 2 | 0.22 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 102% | | |
| J053013ALCS | J053013ALCS | ORG | 99-87-6 | p-Isopropltoluene | 48 | | ug/L | 2 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | ORG | 106-46-7 | 1,4-Dichlorobenzene | 52 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 104% | | |
| J053013ALCS | J053013ALCS | ORG | 95-50-1 | 1,2-Dichlorobenzene | 55 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 110% | | |
| J053013ALCS | J053013ALCS | ORG | 104-51-8 | n-Butylbenzene | 52 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 104% | | |
| J053013ALCS | J053013ALCS | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 56 | | ug/L | 5 | 1.59 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 112% | | |
| J053013ALCS | J053013ALCS | ORG | 87-68-3 | Hexachlorobutadiene | 57 | | ug/L | 5 | 0.65 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 114% | | |
| J053013ALCS | J053013ALCS | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 55 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 110% | | |
| J053013ALCS | J053013ALCS | ORG | 91-20-3 | Naphthalene | 50 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 100% | | |
| J053013ALCS | J053013ALCS | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 102% | | |
| J053013ALCS | J053013ALCS | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 102% | | |
| J053013ALCS | J053013ALCS | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 52 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 104% | | |
| J053013ALCS | J053013ALCS | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 96% | | |
| J053013ALCS | J053013ALCS | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8522 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013ALCD | J053013ALCD | ORG | 75-71-8 | Dichlorodifluoromethane | 26 | | ug/L | 5 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 52% | 11% | |
| J053013ALCD | J053013ALCD | ORG | 74-87-3 | Chloromethane | 36 | | ug/L | 5 | 0.43 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 72% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 75-01-4 | Vinyl chloride | 37 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 74% | 8% | |
| J053013ALCD | J053013ALCD | ORG | 74-83-9 | Bromomethane | 39 | | ug/L | 5 | 0.50 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 78% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 75-00-3 | Chloroethane | 48 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 96% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 75-69-4 | Trichlorofluoromethane | 45 | | ug/L | 5 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 90% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 75-35-4 | 1,1-Dichloroethene | 42 | | ug/L | 1 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 84% | 5% | |
| J053013ALCD | J053013ALCD | ORG | 75-09-2 | Methylene chloride | 43 | | ug/L | 5 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 86% | 9% | |
| J053013ALCD | J053013ALCD | ORG | 67-64-1 | Acetone | 54 | | ug/L | 10 | 1.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 108% | 5% | |
| J053013ALCD | J053013ALCD | ORG | 156-60-5 | trans-1,2-Dichloroethene | 39 | | ug/L | 1 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 78% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 1634-04-4 | MTBE | 50 | | ug/L | 5 | 0.61 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 100% | 2% | |
| J053013ALCD | J053013ALCD | ORG | 75-34-3 | 1,1-Dichloroethane | 47 | | ug/L | 1 | 0.53 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 94% | 0% | |
| J053013ALCD | J053013ALCD | ORG | 156-59-2 | cis-1,2-Dichloroethene | 46 | | ug/L | 1 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 92% | 12% | |
| J053013ALCD | J053013ALCD | ORG | 74-97-5 | Bromochloromethane | 49 | | ug/L | 10 | 0.81 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 98% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 67-66-3 | Chloroform | 44 | | ug/L | 2 | 0.41 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 88% | 2% | |
| J053013ALCD | J053013ALCD | ORG | 71-55-6 | 1,1,1-Trichloroethane | 46 | | ug/L | 1 | 0.16 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 92% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 78-93-3 | 2-Butanone | 62 | | ug/L | 1 | 0.17 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 124% | 3% | |
| J053013ALCD | J053013ALCD | ORG | 56-23-5 | Carbon tetrachloride | 42 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 84% | 11% | |
| J053013ALCD | J053013ALCD | ORG | 71-43-2 | Benzene | 41 | | ug/L | 1 | 0.14 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 82% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 107-06-2 | 1,2-Dichloroethane | 47 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 94% | 2% | |
| J053013ALCD | J053013ALCD | ORG | 79-01-6 | Trichloroethene | 49 | | ug/L | 1 | 0.36 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 98% | 9% | |
| J053013ALCD | J053013ALCD | ORG | 74-95-3 | Dibromomethane | 49 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 98% | 2% | |
| J053013ALCD | J053013ALCD | ORG | 78-87-5 | 1,2-Dichloropropane | 48 | | ug/L | 1 | 0.18 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 96% | 0% | |
| J053013ALCD | J053013ALCD | ORG | 75-27-4 | Bromodichloromethane | 48 | | ug/L | 2 | 0.12 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 96% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 46 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 92% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 108-88-3 | Toluene | 41 | | ug/L | 5 | 0.74 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 82% | 2% | |
| J053013ALCD | J053013ALCD | ORG | 108-10-1 | 4-Methyl-2-pentanone | 61 | | ug/L | 1 | 0.21 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 122% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 44 | | ug/L | 1 | 0.31 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 88% | 11% | |
| J053013ALCD | J053013ALCD | ORG | 127-18-4 | Tetrachloroethene | 60 | | ug/L | 1 | 0.49 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 120% | 76% | |
| J053013ALCD | J053013ALCD | ORG | 79-00-5 | 1,1,2-Trichloroethane | 52 | | ug/L | 1 | 0.34 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 104% | 8% | |
| J053013ALCD | J053013ALCD | ORG | 124-48-1 | Dibromochloromethane | 51 | | ug/L | 5 | 0.69 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 102% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 106-93-4 | 1,2-Dibromoethane | 55 | | ug/L | 2 | 0.30 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 110% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 591-78-6 | 2-Hexanone | 65 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 130% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 100-41-4 | Ethylbenzene | 39 | | ug/L | 1 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 78% | 5% | |
| J053013ALCD | J053013ALCD | ORG | 108-90-7 | Chlorobenzene | 39 | | ug/L | 1 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 78% | 3% | |
| J053013ALCD | J053013ALCD | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 45 | | ug/L | 2 | 0.19 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 90% | 5% | |
| J053013ALCD | J053013ALCD | ORG | XYLMP | p&m-Xylene | 84 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 100 | 84% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 95-47-6 | o-Xylene | 40 | | ug/L | 1 | 0.13 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 80% | 5% | |
| J053013ALCD | J053013ALCD | ORG | 100-42-5 | Styrene | 45 | | ug/L | 1 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 90% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 75-25-2 | Bromoform | 54 | | ug/L | 2 | 0.47 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 108% | 12% | |
| J053013ALCD | J053013ALCD | ORG | 98-82-8 | Isopropylbenzene | 41 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 82% | 5% | |
| J053013ALCD | J053013ALCD | ORG | 103-65-1 | n-Propylbenzene | 45 | | ug/L | 2 | 0.27 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 90% | 9% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J053013ALCD | J053013ALCD | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 59 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 118% | 3% | |
| J053013ALCD | J053013ALCD | ORG | 96-18-4 | 1,2,3-Trichloropropane | 57 | | ug/L | 2 | 0.29 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 114% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 42 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 84% | 7% | |
| J053013ALCD | J053013ALCD | ORG | 98-06-6 | tert-Butylbenzene | 47 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 94% | 6% | |
| J053013ALCD | J053013ALCD | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 45 | | ug/L | 2 | 0.20 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 90% | 9% | |
| J053013ALCD | J053013ALCD | ORG | 135-98-8 | sec-Butylbenzene | 42 | | ug/L | 2 | 0.32 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 84% | 9% | |
| J053013ALCD | J053013ALCD | ORG | 541-73-1 | 1,3-Dichlorobenzene | 47 | | ug/L | 2 | 0.22 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 94% | 8% | |
| J053013ALCD | J053013ALCD | ORG | 99-87-6 | p-Isopropltoluene | 42 | | ug/L | 2 | 0.25 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 84% | 13% | |
| J053013ALCD | J053013ALCD | ORG | 106-46-7 | 1,4-Dichlorobenzene | 48 | | ug/L | 2 | 0.33 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 96% | 8% | |
| J053013ALCD | J053013ALCD | ORG | 95-50-1 | 1,2-Dichlorobenzene | 53 | | ug/L | 2 | 0.26 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 106% | 4% | |
| J053013ALCD | J053013ALCD | ORG | 104-51-8 | n-Butylbenzene | 44 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 88% | 17% | |
| J053013ALCD | J053013ALCD | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 67 | | ug/L | 5 | 1.59 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 134% | 18% | |
| J053013ALCD | J053013ALCD | ORG | 87-68-3 | Hexachlorobutadiene | 48 | | ug/L | 5 | 0.65 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 96% | 17% | |
| J053013ALCD | J053013ALCD | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 50 | | ug/L | 5 | 0.28 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 100% | 10% | |
| J053013ALCD | J053013ALCD | ORG | 91-20-3 | Naphthalene | 56 | | ug/L | 5 | 0.56 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 112% | 11% | |
| J053013ALCD | J053013ALCD | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 51 | | ug/L | 5 | 0.23 | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 102% | 0% | |
| J053013ALCD | J053013ALCD | STD | 1868-53-7 | Dibromofluoromethane | 54 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 108% | 6% | |
| J053013ALCD | J053013ALCD | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 56 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 112% | 7% | |
| J053013ALCD | J053013ALCD | STD | 2037-26-5 | Toluene d8 | 50 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 100% | 4% | |
| J053013ALCD | J053013ALCD | STD | 460-00-4 | Bromofluorobenzene | 49 | | ng | | | NA | 5/30/2013 | 5/30/2013 | WQ | 1 | NA | 5.0 | NA | SW8260B | NALJ8523 | 50 | 98% | 4% | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271MS | OB-170 | ORG | 75-71-8 | Dichlorodifluoromethane | 3000 | | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 60% | | |
| NAL13026-271MS | OB-170 | ORG | 74-87-3 | Chloromethane | 3800 | | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 76% | | |
| NAL13026-271MS | OB-170 | ORG | 75-01-4 | Vinyl chloride | 4100 | | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 82% | | |
| NAL13026-271MS | OB-170 | ORG | 74-83-9 | Bromomethane | 4400 | | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 88% | | |
| NAL13026-271MS | OB-170 | ORG | 75-00-3 | Chloroethane | 5300 | | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 106% | | |
| NAL13026-271MS | OB-170 | ORG | 75-69-4 | Trichlorofluoromethane | 4900 | | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 98% | | |
| NAL13026-271MS | OB-170 | ORG | 75-35-4 | 1,1-Dichloroethene | 3900 | | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 78% | | |
| NAL13026-271MS | OB-170 | ORG | 75-09-2 | Methylene chloride | 4400 | | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 88% | | |
| NAL13026-271MS | OB-170 | ORG | 67-64-1 | Acetone | 42000 | | ug/L | 1000 | 155.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | -120% | | 48000 |
| NAL13026-271MS | OB-170 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 3900 | | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 78% | | |
| NAL13026-271MS | OB-170 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 104% | | |
| NAL13026-271MS | OB-170 | ORG | 75-34-3 | 1,1-Dichloroethane | 4600 | | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 92% | | |
| NAL13026-271MS | OB-170 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 102% | | |
| NAL13026-271MS | OB-170 | ORG | 74-97-5 | Bromochloromethane | 4900 | | ug/L | 1000 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 98% | | |
| NAL13026-271MS | OB-170 | ORG | 67-66-3 | Chloroform | 4300 | | ug/L | 200 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 86% | | |
| NAL13026-271MS | OB-170 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 4700 | | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 94% | | |
| NAL13026-271MS | OB-170 | ORG | 78-93-3 | 2-Butanone | 25000 | | ug/L | 100 | 16.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | -80% | | 29000 |
| NAL13026-271MS | OB-170 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 96% | | |
| NAL13026-271MS | OB-170 | ORG | 71-43-2 | Benzene | 4400 | | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 88% | | |
| NAL13026-271MS | OB-170 | ORG | 107-06-2 | 1,2-Dichloroethane | 4800 | | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 96% | | |
| NAL13026-271MS | OB-170 | ORG | 79-01-6 | Trichloroethene | 4300 | | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 86% | | |
| NAL13026-271MS | OB-170 | ORG | 74-95-3 | Dibromomethane | 4700 | | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 94% | | |
| NAL13026-271MS | OB-170 | ORG | 78-87-5 | 1,2-Dichloropropane | 4700 | | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 94% | | |
| NAL13026-271MS | OB-170 | ORG | 75-27-4 | Bromodichloromethane | 4500 | | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 90% | | |
| NAL13026-271MS | OB-170 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 4600 | | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 92% | | |
| NAL13026-271MS | OB-170 | ORG | 108-88-3 | Toluene | 4300 | | ug/L | 500 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 86% | | 16 |
| NAL13026-271MS | OB-170 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 6300 | | ug/L | 100 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 117% | | 430 |
| NAL13026-271MS | OB-170 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4700 | | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 94% | | |
| NAL13026-271MS | OB-170 | ORG | 127-18-4 | Tetrachloroethene | 2900 | | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 58% | | |
| NAL13026-271MS | OB-170 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 4800 | | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 96% | | |
| NAL13026-271MS | OB-170 | ORG | 124-48-1 | Dibromochloromethane | 4700 | | ug/L | 500 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 94% | | |
| NAL13026-271MS | OB-170 | ORG | 106-93-4 | 1,2-Dibromoethane | 5200 | | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 104% | | |
| NAL13026-271MS | OB-170 | ORG | 591-78-6 | 2-Hexanone | 6000 | | ug/L | 200 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 120% | | |
| NAL13026-271MS | OB-170 | ORG | 100-41-4 | Ethylbenzene | 4100 | | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 82% | | |
| NAL13026-271MS | OB-170 | ORG | 108-90-7 | Chlorobenzene | 4000 | | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 80% | | |
| NAL13026-271MS | OB-170 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4300 | | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 86% | | |
| NAL13026-271MS | OB-170 | ORG | XYLMP | p&m-Xylene | 8900 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 10000 | 86% | | 350 |
| NAL13026-271MS | OB-170 | ORG | 95-47-6 | o-Xylene | 4100 | | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 82% | | 16 |
| NAL13026-271MS | OB-170 | ORG | 100-42-5 | Styrene | 4600 | | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 92% | | 20 |
| NAL13026-271MS | OB-170 | ORG | 75-25-2 | Bromoform | 4800 | | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 96% | | |
| NAL13026-271MS | OB-170 | ORG | 98-82-8 | Isopropylbenzene | 4300 | | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 86% | | 25 |
| NAL13026-271MS | OB-170 | ORG | 103-65-1 | n-Propylbenzene | 4800 | | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 96% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271MS | OB-170 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5800 | | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 116% | | |
| NAL13026-271MS | OB-170 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5600 | | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 112% | | |
| NAL13026-271MS | OB-170 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4500 | | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 89% | | 34 |
| NAL13026-271MS | OB-170 | ORG | 98-06-6 | tert-Butylbenzene | 4900 | | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 98% | | |
| NAL13026-271MS | OB-170 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 98% | | 100 |
| NAL13026-271MS | OB-170 | ORG | 135-98-8 | sec-Butylbenzene | 4500 | | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 90% | | 25 |
| NAL13026-271MS | OB-170 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 104% | | |
| NAL13026-271MS | OB-170 | ORG | 99-87-6 | p-Isopropltoluene | 5200 | | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 90% | | 720 |
| NAL13026-271MS | OB-170 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 105% | | 75 |
| NAL13026-271MS | OB-170 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5400 | | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 108% | | |
| NAL13026-271MS | OB-170 | ORG | 104-51-8 | n-Butylbenzene | 5100 | | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 102% | | |
| NAL13026-271MS | OB-170 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6300 | | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 126% | | |
| NAL13026-271MS | OB-170 | ORG | 87-68-3 | Hexachlorobutadiene | 5200 | | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 104% | | |
| NAL13026-271MS | OB-170 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5300 | | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 106% | | |
| NAL13026-271MS | OB-170 | ORG | 91-20-3 | Naphthalene | 5800 | | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 102% | | 700 |
| NAL13026-271MS | OB-170 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5200 | | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 5000 | 101% | | 130 |
| NAL13026-271MS | OB-170 | STD | 1868-53-7 | Dibromofluoromethane | 52 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 50 | 104% | | |
| NAL13026-271MS | OB-170 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 51 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 50 | 102% | | |
| NAL13026-271MS | OB-170 | STD | 2037-26-5 | Toluene d8 | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 50 | 96% | | |
| NAL13026-271MS | OB-170 | STD | 460-00-4 | Bromofluorobenzene | 47 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8524 | 50 | 94% | | |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271MSD | OB-170 | ORG | 75-71-8 | Dichlorodifluoromethane | 2800 | | ug/L | 500 | 29.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 56% | 7% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 74-87-3 | Chloromethane | 3800 | | ug/L | 500 | 43.07 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 76% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-01-4 | Vinyl chloride | 3900 | | ug/L | 200 | 31.86 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 78% | 5% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 74-83-9 | Bromomethane | 4000 | | ug/L | 500 | 50.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 80% | 10% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-00-3 | Chloroethane | 5100 | | ug/L | 500 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 102% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-69-4 | Trichlorofluoromethane | 4800 | | ug/L | 500 | 19.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 96% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-35-4 | 1,1-Dichloroethene | 3800 | | ug/L | 100 | 47.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 76% | 3% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-09-2 | Methylene chloride | 4400 | | ug/L | 500 | 26.46 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 88% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 67-64-1 | Acetone | 38000 | | ug/L | 1000 | 155.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | -200% | 10% | 48000 |
| NAL13026-271MSD | OB-170 | ORG | 156-60-5 | trans-1,2-Dichloroethene | 4300 | | ug/L | 100 | 55.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 86% | 10% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 1634-04-4 | MTBE | 5200 | | ug/L | 500 | 61.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 104% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-34-3 | 1,1-Dichloroethane | 4800 | | ug/L | 100 | 52.66 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 96% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 156-59-2 | cis-1,2-Dichloroethene | 5100 | | ug/L | 100 | 32.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 102% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 74-97-5 | Bromochloromethane | 5000 | | ug/L | 1000 | 81.18 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 67-66-3 | Chloroform | 4400 | | ug/L | 200 | 41.37 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 88% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 71-55-6 | 1,1,1-Trichloroethane | 5000 | | ug/L | 100 | 15.73 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 6% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 78-93-3 | 2-Butanone | 24000 | | ug/L | 100 | 16.65 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | -100% | 4% | 29000 |
| NAL13026-271MSD | OB-170 | ORG | 56-23-5 | Carbon tetrachloride | 4800 | | ug/L | 100 | 27.64 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 96% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 71-43-2 | Benzene | 4500 | | ug/L | 100 | 13.53 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 90% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 107-06-2 | 1,2-Dichloroethane | 4900 | | ug/L | 100 | 20.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 98% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 79-01-6 | Trichloroethene | 4700 | | ug/L | 100 | 36.33 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 94% | 9% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 74-95-3 | Dibromomethane | 4900 | | ug/L | 200 | 32.20 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 98% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 78-87-5 | 1,2-Dichloropropane | 5000 | | ug/L | 100 | 18.17 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 6% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 75-27-4 | Bromodichloromethane | 4700 | | ug/L | 200 | 11.58 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 94% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 10061-01-5 | cis-1,3-Dichloropropene | 5000 | | ug/L | 100 | 25.01 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 8% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 108-88-3 | Toluene | 4500 | | ug/L | 500 | 74.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 90% | 5% | 16 |
| NAL13026-271MSD | OB-170 | ORG | 108-10-1 | 4-Methyl-2-pentanone | 5900 | | ug/L | 100 | 20.96 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 109% | 7% | 430 |
| NAL13026-271MSD | OB-170 | ORG | 10061-02-6 | trans-1,3-Dichloropropene | 4900 | | ug/L | 100 | 31.15 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 98% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 127-18-4 | Tetrachloroethene | 3000 | | ug/L | 100 | 48.56 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 60% | 3% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 79-00-5 | 1,1,2-Trichloroethane | 5200 | | ug/L | 100 | 34.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 104% | 8% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 124-48-1 | Dibromochloromethane | 5000 | | ug/L | 500 | 68.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 6% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 106-93-4 | 1,2-Dibromoethane | 5400 | | ug/L | 200 | 29.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 108% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 591-78-6 | 2-Hexanone | 5300 | | ug/L | 200 | 26.49 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 106% | 12% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 100-41-4 | Ethylbenzene | 4300 | | ug/L | 100 | 25.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 86% | 5% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 108-90-7 | Chlorobenzene | 4200 | | ug/L | 100 | 27.52 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 84% | 5% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 630-20-6 | 1,1,1,2-Tetrachloroethane | 4300 | | ug/L | 200 | 19.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 86% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | XYLMP | p&m-Xylene | 9100 | | ug/L | 200 | 26.14 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 10000 | 88% | 2% | 350 |
| NAL13026-271MSD | OB-170 | ORG | 95-47-6 | o-Xylene | 4300 | | ug/L | 100 | 12.90 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 86% | 5% | 16 |
| NAL13026-271MSD | OB-170 | ORG | 100-42-5 | Styrene | 4800 | | ug/L | 100 | 20.23 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 96% | 4% | 20 |
| NAL13026-271MSD | OB-170 | ORG | 75-25-2 | Bromoform | 5000 | | ug/L | 200 | 46.83 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 4% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 98-82-8 | Isopropylbenzene | 4500 | | ug/L | 200 | 20.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 90% | 5% | 25 |
| NAL13026-271MSD | OB-170 | ORG | 103-65-1 | n-Propylbenzene | 5000 | | ug/L | 200 | 27.00 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 4% | 0 |

New Age/Landmark
Mobile Laboratory Services
160 Veterans Blvd. • South Haven, Michigan 49090
Tel: 888-685-1628 • mobilelabs@newagelandmark.com

# FINAL ANALYTICAL REPORT

**Republic Services**
**12976 St. Charles Rock Rd.**
**Bridgeton, MO 63044**
**ATTN: Craig Almanza**

**Project #: NAL13-026**
**Project Site: Bridgeton Landfill**

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
**B** = Analyte is found in the associated blank as well as in the sample.
**D** = Compound identified in an analysis at a secondary dilution factor.
**E** = Compound's concentration exceeds the calibration range of the instrument at this dilution.
**X** = Estimated value, some aspect of the test relative to this compound did not meet QC criteria. See batch narrative for explanation.
**J** = Estimated value, compound meets the identification criteria but the result is less than the limit of quantitation but greater than the MDL.
**M** = Matrix assesment, QC analyses parameter exceeded control limits.
**U** = Non-detect
***** NAL is not certified for these compound by NELAC.

| Lab ID: | Sample ID: | | CAS # | ANALYTES | Results | QC | Units | RDL | MDL | Sample Date | Prep. Date | Analysis Date | Matrix | Dil. | Weight(g) | Vol.(ml) | % Solid | Method | Data file | Spike | % Rec | % RPD | Parent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAL13026-271MSD | OB-170 | ORG | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5800 | | ug/L | 200 | 29.16 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 116% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 96-18-4 | 1,2,3-Trichloropropane | 5500 | | ug/L | 200 | 29.47 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 110% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 108-67-8 | 1,3,5-Trimethylbenzene | 4700 | | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 93% | 4% | 34 |
| NAL13026-271MSD | OB-170 | ORG | 98-06-6 | tert-Butylbenzene | 5000 | | ug/L | 200 | 32.61 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 100% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 95-63-6 | 1,2,4-Trimethylbenzene | 5000 | | ug/L | 200 | 20.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 98% | 0% | 100 |
| NAL13026-271MSD | OB-170 | ORG | 135-98-8 | sec-Butylbenzene | 4700 | | ug/L | 200 | 32.34 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 94% | 4% | 25 |
| NAL13026-271MSD | OB-170 | ORG | 541-73-1 | 1,3-Dichlorobenzene | 5200 | | ug/L | 200 | 22.21 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 104% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 99-87-6 | p-Isopropltoluene | 5400 | | ug/L | 200 | 25.48 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 94% | 4% | 720 |
| NAL13026-271MSD | OB-170 | ORG | 106-46-7 | 1,4-Dichlorobenzene | 5300 | | ug/L | 200 | 33.03 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 105% | 0% | 75 |
| NAL13026-271MSD | OB-170 | ORG | 95-50-1 | 1,2-Dichlorobenzene | 5400 | | ug/L | 200 | 26.38 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 108% | 0% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 104-51-8 | n-Butylbenzene | 5200 | | ug/L | 500 | 27.81 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 104% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 96-12-8 | 1,2-Dibromo-3-chloropropane | 6100 | | ug/L | 500 | 159.11 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 122% | 3% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 87-68-3 | Hexachlorobutadiene | 5100 | | ug/L | 500 | 65.42 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 102% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 120-82-1 | 1,2,4-Trichlorobenzene | 5200 | | ug/L | 500 | 27.63 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 104% | 2% | 0 |
| NAL13026-271MSD | OB-170 | ORG | 91-20-3 | Naphthalene | 5600 | | ug/L | 500 | 56.04 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 98% | 4% | 700 |
| NAL13026-271MSD | OB-170 | ORG | 87-61-6 | 1,2,3-Trichlorobenzene | 5100 | | ug/L | 500 | 23.28 | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 5000 | 99% | 2% | 130 |
| NAL13026-271MSD | OB-170 | STD | 1868-53-7 | Dibromofluoromethane | 51 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 50 | 102% | 2% | 0 |
| NAL13026-271MSD | OB-170 | STD | 17060-07-0 | 1,2-Dichloroethane d4 | 54 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 50 | 108% | 6% | 0 |
| NAL13026-271MSD | OB-170 | STD | 2037-26-5 | Toluene d8 | 49 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 50 | 98% | 2% | 0 |
| NAL13026-271MSD | OB-170 | STD | 460-00-4 | Bromofluorobenzene | 48 | | ng | | | 5/30/2013 | 5/30/2013 | 5/30/2013 | WG | 100 | NA | 5.0 | NA | SW8260B | NALJ8525 | 50 | 96% | 2% | 0 |