

Bridgeton Landfill, LLC

March 13, 2013

Mr. Larry Lehman
Missouri Department of Natural Resources
Solid Waste Management Program
P.O. Box 176
Jefferson City, MO 65102

Subject: Response to February 2, 2013 Leachate Release

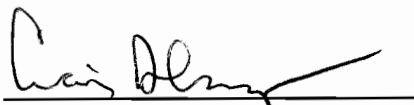
Dear Larry:

I am forwarding for your files the Interim Report on the Response to the February 2, 2013, Leachate Release at Bridgeton Landfill. This documents the investigation and response actions taken following the leachate release, and provides an evaluation of any remaining impact.

As recommended by this report, we are moving forward with limited additional excavation to remove the remaining impacted soils, followed by confirmation sampling. Following that we will conduct the recommended rock placement to re-stabilize the drainage channel in order to minimize sediment discharge. Additionally, we are moving forward with profiling and disposal of the excavated soils from this event, in accordance with the characterization of this report.

We apologize again for the delay in getting this report to you. We will complete the limited remaining work and provide a final report for your files. If you have any questions or need additional information, please let me know.

Sincerely



Craig Almanza
Area Environmental Manager
Bridgeton Landfill

Enclosure

SCS AQUATERRA

March 15, 2013
File No. 5800.10

Mr. Sean Torrey
Environmental Manager
Bridgeton Landfill, LLC
13570 St. Charles Rock Road
Bridgeton, Missouri 63044

Subject: Interim Report
Leachate Release Soil and Surface Water Sampling
Bridgeton Landfill, LLC
Bridgeton, Missouri

Dear Mr. Torrey:

SCS Aquaterra is submitting an interim report summarizing the results of the soil and surface water sampling related to a leachate release at the Bridgeton Landfill in Bridgeton, Missouri. Bridgeton Landfill, LLC retained SCS Aquaterra to collect soil and surface water samples along a drainage channel located south and west of the Bridgeton Landfill, LLC (subject site). SCS Aquaterra collected the soil and surface water samples following a leachate release from piping located on the landfill and northeast of drainage channel. The leachate release occurred on February 2, 2013. SCS Aquaterra performed the following professional environmental services: observation of the remedial response and the collection of soil and surface water samples in order to assist Bridgeton Landfill, LLC in delineating the extent of leachate contamination in the tributary. Bridgeton Landfill, LLC's spill response contractor, American Environmental Group LTD. (AEG), performed remediation activities which included vacuuming visible leachate from the drainage channel, flushing the drainage channel with water, and recovery of the flushed surface waters from the drainage channel, and excavation of impacted soil. SCS Aquaterra subsequently performed soil and surface water confirmation sampling. These activities are described in further detail in this report.

BACKGROUND

SCS Aquaterra was requested by Bridgeton Landfill, LLC to arrive at the subject site on Saturday, February 2, 2013. SCS Aquaterra met with Bridgeton Landfill, LLC personnel and proceeded to the area of the leachate release. The area of the leachate release occurred at the southeast corner of the landfill and originated from a hose which disconnected from a leachate pump and allowed leachate to flow into a drainage channel. SCS Aquaterra observed an area of leachate release on Bridgeton Landfill, LLC property. The release appeared to flow to the south toward Outfall No. 003, into a concrete culvert and into a ditch/drainage channel. The approximate point of the release is shown on the attached Drawing 1. The drainage channel



appears to flow west through a wooded area where the extent of the leachate release terminated at approximately 430 feet from the point of release. Beyond a distance of approximately 430 feet, the drainage channel was dry. SCS Aquaterra collected two soil samples (BGSS-001 and ISS-001) from the drainage channel area at the approximate locations shown on Figure 2 on February 2, 2013. Sample BGSS-001 is a background sample that represents the non-impacted soil area outside the area of the leachate release, and sample ISS-001 represents impacted soil in the area of the leachate release. In addition, on February 2, 2013, SCS Aquaterra collected a split surface water sample (W-001) from the drainage channel during cleanup activities. SCS Aquaterra split the water sample with representatives from the Missouri Department of Natural Resources (MDNR).

On February 2, 2013, Bridgeton Landfill, LLC's spill response contractor, American Environmental Group Ltd. (AEG), began remediation activities which included using vacuum trucks to recover surface waters impacted by leachate from the drainage channel. AEG repeatedly flushed the surface water in the drainage channel and collected the leachate impacted surface water in vacuum trucks for transfer to the facility's leachate storage tank. AEG also excavated leachate impacted soils adjacent to and in the drainage channel. The leachate impacted soils were immediately placed into lined roll-off containers for later characterization and disposal.

SCS Aquaterra returned to the site on Sunday, February 3, 2013, to mark the soil sample locations and measure the distances of the approximate impact in the drainage channel and the locations of soil and the surface water samples relative to site structures. SCS Aquaterra proceeded to traverse the drainage channel to the west approximately 430 feet. SCS Aquaterra observed additional staining and dark odorous surface water in the drainage channel at the terminal point of the surface water flow in the drainage channel. The drainage channel to the west of the 430 foot distance was dry. Based on SCS Aquaterra's findings, AEG performed another series of surface water flushing in the drainage channel. AEG used vacuum trucks to collect the leachate-impacted surface water from the drainage channel, and transferred the water to the facility's leachate storage tank. SCS Aquaterra also collected a composite soil sample (WCSS-001) from the lined roll-off containers at the site for profiling the leachate impacted soil. SCS Aquaterra collected soil and surface water confirmation samples on Wednesday, February 20, 2013. SCS Aquaterra collected four soil samples (SSW-01, SS-02, SS-03, and SSE-04) and two surface water samples (SWW-01 and SWE-04) from the drainage channel at the approximate locations indicated on Drawing 2.

DRAINAGE CHANNEL SAMPLING

SCS Aquaterra collected six soil and three surface water samples to assess the extent of leachate impacts and to assist in remediation activities. The remedial activities occurred on Saturday, February 2 and Sunday February 3, 2013. Soil and surface water sampling was also performed on Wednesday, February 20, 2013 to confirm the effectiveness of the remediation cleanup. Soil and surface water samples were collected in the drainage channel from near Outfall No. 003 to

the termination point of the leachate release; a distance of approximately 430 feet in the drainage channel. Approximate locations of the soil and surface water samples are shown on Drawing 2.

SCS Aquaterra collected a total of six soil samples (BGSS-001, ISS-001, SSW-01, SS-02, SS-03, and SSE-04) using stainless steel spoons or hand trowels. SCS Aquaterra collected a background soil sample on February 2, 2013. The Background Soil Sample denoted as (BGSS-001) was collected along the east bank in a non-impacted area from the leachate release. The purpose of this soil sample is to compare the non-impacted native soils to the leachate impacted soils at the subject site. SCS Aquaterra also collected another soil sample on February 2, 2013. The Impacted Soil Sample (ISS-001) was collected from the middle of the drainage ditch representing the area of the leachate release. SCS Aquaterra also collected a Waste Characterization Soil Sample (WCSS-01). SCS Aquaterra collected this soil sample on February 3, 2013 as a composite soil sample (collected from multiple roll-off containers) at the completion of soil excavation activities to profile the impacted soils for disposal.

After remediation efforts ceased and following receipt of initial liquids sampling results, SCS Aquaterra returned to the subject site on February 20, 2013 and collected four soil confirmation samples (SSW-01, SS-02, SS-03, and SSE-04). SCS Aquaterra began the soil confirmation sampling approximately 430 feet from the point of release. SCS Aquaterra collected one soil sample (SSW-01) in the dry drainage channel bed at the terminal point of the release. SCS Aquaterra collected another soil sample (SS-02) approximately 125 feet upstream from sample SSW-01. Sample SS-02 was collected east of sample SSW-01. The third soil sample (SS-03) was taken approximately 125 feet upstream of sample SS-02 in the drainage channel. The fourth soil sample (SSE-04) was collected closest to the facility in the drainage channel near the concrete culvert.

SCS Aquaterra collected a total of three surface water samples (W-001, SWW-01 and SWE-04). SCS Aquaterra collected a surface water leachate sample (W-001) on February 2, 2013 during remediation cleanup activities in the drainage channel. The surface water sample (W-001) was a composite sample collected at multiple locations downstream from Outfall No. 003 in the drainage channel. SCS Aquaterra returned to the subject site on February 20, 2013 and collected a surface water sample (SWW-01) from where the leachate impacted surface water terminated approximately 430 feet west in the unnamed tributary. Another surface water sample (SWE-04) which was taken upstream to the east in the drainage channel near the concrete culvert. The purpose of these latter surface water samples was to assess potential residual leachate impacts downstream and upstream in the drainage channel after remediation cleanup efforts were completed.

SAMPLE HANDLING AND ANALYSIS

SCS Aquaterra wore disposable gloves and decontaminated the sampling equipment between each sampling event with distilled water and soap (Alconox) solution. Soil samples were collected a few inches into native soils and were placed into laboratory provided containers, labeled, and transported in a cooler on ice to an accredited environmental laboratory Teklab, Inc

(Teklab), located in Collinsville, Illinois. The soil samples were analyzed for total cyanide by EPA Method 9012A, metals by EPA method 6010B, mercury by EPA Method 7471B, chlorinated pesticides by EPA Method 8081B, polychlorinated biphenyls (PCBs) by EPA Method 8081, semi-volatile organic compounds (SVOCs) by EPA method 8270C, and volatile organic compounds (VOCs) by EPA Method 8260B. Laboratory analytical results are included as an attachment to this report.

Surface water samples were collected in the drainage ditch and placed in laboratory provided containers, labeled, and transported in a cooler on ice to Teklab. The surface water samples were analyzed for hexane by EPA Method 1664A, nitrogen ammonia (as N) by EPA Method 600 350.1, total sulfate by EPA Method 600 375.2 REV 2.0 1993, chemical oxygen demand (COD) by EPA 600 410.4, pH by Standard Method 4500-H B, hardness by Standard Method 2340 C, total suspended solids (TSS) by Standard Method 2540 D, total solids by Standard Method 2540F, hexavalent chromium by Standard Method 3500 CR B, total chloride by Standard Method 4500-CL E, biological oxygen demand (BOD) by Standard Method 5210B, total mercury by EPA Method 600 245.1 R3.0, total metals by EPA 600 4.1.4, 200.7R4.4, SVOCs by EPA Method EPA 600 625 (MODIFIED), trivalent chromium, and VOCs by EPA Method 600 624 (MODIFIED).

SAMPLING RESULTS

Evaluation of the soil analytical data was completed using the default soil target levels (DTLs) listed in Table B-1 “Lowest Default Target Levels, All Soil Types and All Pathways” of Appendix B of the MDNR’s Missouri Risk-Based Corrective Action (MRBCA) Technical Guidance. These standards are used as guidance for chemical-specific and site-specific cleanup goals for soil impacts. Actual application of the standards, residential/non-residential scenarios, and additional site characterization must receive approval from MDNR prior to implementation, if the impact poses a risk to human health and the environment. Soil sample analytical results are summarized in Table 1. Only the parameters that were detected or had detection levels higher than the most stringent DTLs are listed in Table 1.

As indicated in Table 1, nine metals and ten VOC parameters were detected in the drainage channel samples. The metals were also detected in the background soil sample (BGSS-001), and the VOCs detected in the confirmation samples were below the most stringent DTLs, except for a detection of tetrahydrofuran in sample SS-02. The concentrations of arsenic and lead from all soil samples, including the background sample, indicate that the concentrations are higher than the most stringent DTLs for arsenic and lead. No SVOCs were detected in the soil samples, except for total phenol detections in samples ISS-001 and SSE-04 at concentrations well below the most stringent DTL. No pesticides or PCBs were detected in the samples collected from the drainage channel. It should be noted that the laboratory detection levels for many VOC and SVOC parameters are higher than the most stringent DTLs. However, the detection levels for the background soil sample (BGSS-001) were generally higher than those for the initial drainage channel sample (ISS-01), and the detection levels were considerably lower in the four confirmation samples (SSW-01, SSE-02, SS-03, and SS-04).

Evaluation of the surface water data was completed using the values presented in the MDNR's State Operating Permit for the Bridgeton Landfill, LLC surface water discharge target levels. Surface water sample analytical results are shown in Table 2. For many of the chemical parameters reported by the laboratory, the state operating permit has no reported values. The chemical parameters are denoted by an asterisk meaning "*for monitoring requirements only*". The reported values are shown on Table 2 as reported by the laboratory for evaluation of potential impacts to human health and the environment. Only the parameters that were detected are listed in Table 2.

As indicated in Table 2, the results of the water sampling show that the initial water sample (W-001) had concentrations of oil and grease, ammonia, COD, BOD, chloride, sulfate, TSS, and settleable solids above the NDPES permitted limits. The confirmation samples (SWW-01 and SWE-04) had reduced concentrations with BOD, COD, TSS, and settleable solids exceeding the NDPES discharge limits. Additionally, the concentrations of all detected parameters appeared to decrease between the initial water sampling and the confirmation water sampling. It appears that the remediation efforts disturbed the soil in the drainage channel, which resulted increased COD, BOD, TSS, and settleable solids. The COD and BOD increases are likely related bringing sediment into suspension during the soil flushing and excavation. Natural organic carbon was likely also disturbed with the sediment, which would result an increase in COD and BOD.

Copies of the laboratory analytical reports and chain of custody forms are presented as an attachment to this report. Several of the chemical parameters reported by the laboratory were not listed in the MDNR MRBCA technical guidance.

FINDINGS AND CONCLUSIONS

SCS Aquaterra was retained by Bridgeton landfill, LLC to conduct soil and surface water sampling activities at the Bridgeton landfill, LLC due to a leachate release from piping containing leachate. SCS Aquaterra assisted Bridgeton landfill, LLC to assess the extent of contamination and delineate leachate impacted soils and surface water at the subject site. As part of the remediation SCS Aquaterra collected soil and surface water remediation confirmation samples in a drainage channel as described above.

The soil sampling results indicate that soil samples BGSS-001, ISS-001, SSW-01, SS-02, SS-03, and SSE-04 were below the corresponding detection limits and the most stringent DTLs for SVOCs, PCBs, pesticides, and the detected VOCs except for a detection of tetrahydrofuran in sample SS-02. Additionally, the soil samples were below the most stringent DTLs for metals except for arsenic and lead in all of the samples, including the background soil sample.

Below is a summary of laboratory analytical results which exceed the MDNR DTLs with regard to specific chemical parameters at the Bridgeton landfill, LLC.

- Soil samples BGSS-001, ISS-001, SSW-01 SS-02, SS-03, and SSE-04 were reported with arsenic and lead concentration levels above the most stringent MDNR DTLs. Because the

concentrations of arsenic and lead in the background soil sample (BGSS-001) that was collected away from the leachate impacted area also exceed the DTLs, this indicates that the detections of arsenic and lead are indicative of backgrounds and not attributable to a release from the facility.

- Soil sample SS-02 was reported to exceed the most stringent MDNR DTL for tetrahydrofuran. The other confirmation soil samples (SSW-01, and SS-03) were below the most stringent MDNR DTL for tetrahydrofuran.

SCS Aquaterra also collected water samples and compared the results to the facility's NPDES allowable discharge limits.

- Oil and Grease were reported in surface water sample W-001 to be above the daily and monthly discharge limits listed in the NPDES permit.
- COD was reported in surface water samples W-001, SWW-01, and SWE-04 to be above the daily and monthly limits listed in the NPDES permit.
- Ammonia was reported for the initial surface water sample W-001 to be above the daily and monthly limits listed in the NPDES permit.
- Ammonia was reported for confirmation surface water samples SWW-01 and SWE-04 to be below the daily and monthly limits listed in the NPDES permit.
- BOD was reported in surface water samples W-001, SWW-01, and SWE-04 to be above the daily and monthly limits listed in the NPDES permit.
- Chlorides and Sulfates for surface water sample W-001 were reported to be above the corresponding daily and monthly limits listed in the NPDES permit.
- Chlorides and Sulfates for surface water samples SWW-01 and SWE-04 were reported to be below the daily and monthly limits listed in the NPDES permit.
- Settlable Solids for surface water samples W-001 and SWW-01 were reported to be above the daily and monthly limits listed in the NPDES permit.
- TSS for surface water samples W-001, SWW-01, and SWE-04 were reported to be above the daily and monthly limits listed in the NPDES permit.

In conclusion, the laboratory analysis of soil samples collected at the subject site on February 2, 2013, February 3, 2013, and February 20, 2013 indicate that the concentrations of contaminants including arsenic, lead, and tetrahydrofuran exceed the most stringent DTL concentrations. Based on review of the confirmation soil sample results compared to the background and impacted soil sample results, the remediation efforts appear to have generally reduced the concentrations of the

metals, VOCs, and SVOCs at the subject site. Concentrations of PCBs and pesticides were below the corresponding laboratory detection limits and the most stringent DTLs for each parameter.

Based on the sampling results of the soil and surface water samples collected in response to the leachate release, SCS Aquaterra recommends that additional remedial activities are warranted to reduce the concentration of tetrahydrofuran and to reduce the concentrations of BOD, COD, TSS, and settleable solids in the drainage ditch.

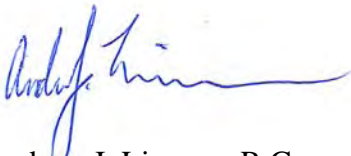
RECOMMENDATIONS

SCS Aquaterra suggests that additional excavation and soil confirmation sampling be conducted in the area of sample SSE-04 to remove the impacted soil containing the tetrahydrofuran concentration. Once the additional impacted soil has been removed, SCS Aquaterra suggests placing rock in the drainage channel to counter the sediment disturbance created by the remedial activities (and proposed limited excavation) in the drainage channel. Placing rock in the drainage channel should reduce the amount of disturbed and suspended sediment, thereby reducing concentrations of COD, BOD, and TSS.

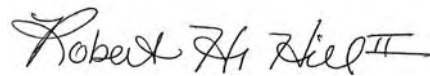
Once the results of the confirmation soil sampling and surface water sampling are complete showing that the remedial activities have addressed the leachate release, a report of the additional remediation and sampling results should be submitted to the MDNR with respect to this release.

Please contact us at (618) 628-2001 if you have any questions or need additional information.

Sincerely,



Andrew J. Limmer, R.G.
Project Director
SCS AQUATERRA



Robert H. Hill, II
Senior Project Professional
SCS AQUATERRA

Attachments

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
BRIDGETON DRAINAGE CHANNEL SAMPLING
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

Parameter	MDNR Default Target Levels (mg/kg)	Sample ID and Date Collected					
		BGSS-001	ISS-001	SS-02	SS-03	SSE-04	SSW-01
		2/2/2013	2/3/2013	2/20/2013	2/20/2013	2/20/2013	2/20/2013
Volatile Organic Compounds (mg/kg)							
1,1,1,2-Tetrachloroethane	0.0715	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
1,1,2,2-Tetrachloroethane	0.0105	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
1,1,2-Trichloroethane	0.0448	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
1,2,3-Trichloropropane	0.000623	< 0.32600	< 0.31800	< 0.01070	< 0.01470	< 0.01020	< 0.01190
1,3,5-Trimethylbenzene	0.882	< 0.16300	< 0.15900	< 0.00320	< 0.00730	0.00520	0.00310
2-Butanone	NL	< 1.63000	< 1.59000	0.51200	J 0.02400	J 0.74000	0.15500
4-Chlorotoluene	0.0235	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Acetone	4.200	< 1.63000	2.85000	< 0.60000	0.09920	2.24000	0.39500
Acrylonitrile	0.000692	< 0.32600	< 0.31800	< 0.01070	< 0.01470	< 0.01020	< 0.01190
Allyl chloride	0.03860	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Benzene	0.0561	< 0.03260	< 0.03180	0.00350	< 0.00150	0.00860	0.00260
Bromomethane	0.0185	< 0.32600	< 0.31800	< 0.01070	< 0.01470	< 0.01020	< 0.01190
Carbon tetrachloride	0.0796	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Chloroethane	0.281	< 0.32600	< 0.31800	< 0.01070	< 0.01470	< 0.01020	< 0.01190
Chloroform	0.0766	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Chloromethane	0.204	< 0.32600	< 0.31800	< 0.01070	< 0.01470	< 0.01020	< 0.01190
Ethylbenzene	39.9	< 0.16300	< 0.15900	< 0.00190	< 0.00730	0.00310	0.00210
Ethyl ether	0.106	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Isopropylbenzene	10.5	< 0.16300	< 0.15900	< 0.00530	< 0.00730	0.00110	< 0.00590
Methylene chloride	0.0176	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Naphthalene	0.325	< 0.32600	< 0.31800	< 0.00260	< 0.01470	0.00400	< 0.01190
Nitrobenzene	0.0198	< 3.26000	< 3.18000	< 0.10700	< 0.14700	< 0.10200	< 0.11900
Tetrachloroethene	0.141	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Tetrahydrofuran	0.03	< 1.63000	< 1.59000	0.15100	< 0.03000	0.52000	0.08890
Trichloroethene	0.141	< 0.16300	< 0.15900	< 0.00530	< 0.00730	< 0.00510	< 0.00590
Toluene	29.8	< 0.16300	< 0.15900	< 0.00390	< 0.00200	0.00740	0.00680
m,p-Xylenes	NL	< 0.16300	< 0.15900	< 0.00370	< 0.00150	0.00560	0.00390
o-Xylene	NL	< 0.16300	< 0.15900	< 0.00160	< 0.00730	0.00260	0.00150
Vinyl chloride	0.0192	< 0.06530	< 0.06360	< 0.00210	< 0.00290	< 0.00200	< 0.00240
Semivolatile Organic Compounds (mg/kg)							
1,2-Diphenylhydrazine	0.072	< 1.03000	< 12.10000	< 1.11000	< 1.18000	< 1.12000	< 1.13000
2,4,6-Trichlorophenol	0.0636	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
2,4-Dichlorophenol	0.903	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
2,4-Dinitrophenol	0.0408	< 1.22000	< 14.40000	< 1.32000	< 1.40000	< 1.33000	< 1.35000
2,4-Dinitrotoluene	0.0325	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
2,6-Dinitrotoluene	0.0112	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
2-Chlorophenol	0.963	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
2-Nitroaniline	0.239	< 1.22000	< 14.40000	< 1.32000	< 1.40000	< 1.33000	< 1.35000
2-Nitrophenol	0.134	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
3,3'-Dichlorobenzidine	0.13	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
3-Nitroaniline	0.0329	< 1.22000	< 14.40000	< 1.32000	< 1.40000	< 1.33000	< 1.35000
4-Bromophenyl phenyl ether	0.0272	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
4-Chloroaniline	0.677	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
4-Chlorophenyl phenyl ether	0.0206	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
4-Nitrophenol	0.0539	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
Dibenzo(a,h)anthracene	0.62	< 0.42700	< 5.04000	< 0.46200	< 0.49000	< 0.46600	< 0.47100
Nitrobenzene	0.0198	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
N-Nitroso-di-n-propylamine	0.000404	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
N-Nitrosodiphenylamine	0.0000409	< 0.61000	< 7.20000	< 0.66000	< 0.70000	< 0.66600	< 0.67300
Phenol	25.6	< 0.42700	6.73000	< 0.22000	< 0.49000	0.42000	< 0.47100
Metals (mg/kg)							
Arsenic	3.89	4.28	4.08	6.14	8.71	5.52	4.42
Beryllium	0.737	0.36	0.45	0.46	0.68	0.42	0.38
Cadmium	9.31	< 0.19	0.19	0.21	0.32	0.20	0.19
Chromium	74600	11.40	14.20	15.10	19.80	13.90	13.20
Copper	617	9.31	15.80	13.00	19.60	13.10	11.40
Lead	3.74	7.90	24.80	9.38	15.90	15.00	9.41
Mercury	2.19	0.017	0.032	0.030	0.043	0.025	0.022
Nickel	505	13.5	15.2	16.8	23.0	15.8	13.6
Zinc	7220	32.20	74.80	48.10	73.10	48.10	56.50

Notes:

- Default target levels are taken from Table B-1, "Lowest Default Target Levels, All Soil Types and All Pathways," of the Missouri Risk-Based Corrective Action Technical Guidance, Appendix B.
 - Bold values indicate laboratory concentrations that exceed the default target level for the indicated parameter
- NL - Parameter not listed in the MRBCA Technical Guidance.

TABLE 2
SURFACE WATER ANALYTICAL RESULTS
BRIDGETON DRAINAGE CHANNEL SAMPLING
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

Parameter	NPDES Limits (mg/L)		Sample ID and Date Collected		
	Daily Maximum	Monthly Average	W-001 2/2/2013	SWE-04 2/20/2013	SWW-01 2/20/2013
Total Metals (mg/L)					
Aluminum, Total	**	**	4.09	21.30	13.80
Antimony, Total	**	**	< 0.0500	< 0.0500	< 0.0500
Arsenic, Total	**	**	0.8370	< 0.0250	< 0.0250
Beryllium, Total	**	**	< 0.0010	0.0011	< 0.0010
Cadmium, Total	**	**	< 0.0080	< 0.0020	< 0.0020
Chromium, Total	**	**	0.1950	0.0321	0.0220
Cobalt, Total	**	**	0.1760	0.0229	0.0174
Copper, Total	**	**	0.0113	0.0408	0.0232
Iron, Total	1639	817	566.0	32.1	23.2
Lead, Total	**	**	< 0.04000	< 0.04000	< 0.0400
Nickel, Total	**	**	0.16600	0.05730	0.0454
Selenium, Total	**	**	< 0.05000	< 0.05000	< 0.0500
Silver, Total	**	**	0.01220	< 0.01000	< 0.0100
Thallium, Total	**	**	< 0.05000	< 0.05000	< 0.0500
Zinc, Total	**	**	8.63000	0.26600	0.2030
General (mg/L)					
O&G, Hexane Extractable Material	15	10	34.0	< 5.0	< 5.0
Chemical Oxygen Demand, Total	120	90	54600.0	422.0	433.0
Ammonia	7.5	2.8	577.0	1.990	2.490
Biochemical Oxygen Demand	45	30	33800.0	151.0	159.0
Chloride	1000*	**	3970.0	167.0	232.0
Hardness	**	**	14700.0	420.0	530.0
Hexavalent Chromium	NL	NL	0.5	< 0.050	< 0.050
pH	***	***	5.58	7.56	7.50
Settleable Solids	1.5	1.0	3.0	1.40	1.90
Sulfate, Total	1000*	**	780.0	119.0	162.0
Total Suspended Solids	80	60	460.0	788.0	784.0
Trivalent Chromium	NL	NL	< 0.01000	0.032	0.022
Mercury	**	**	0.007360	0.00029	0.00029

Notes:

1. Monitoring limits taken from Missouri State Operating Permit MO-0112771 for wastewater discharges from the Bridgeton Landfill facility. The permit is issued in accordance with Missouri Clean Water Law and the National Pollutant Discharge Elimination System (NPDES).

2. Bold values indicate laboratory concentrations that exceed the default target level for the indicated parameter

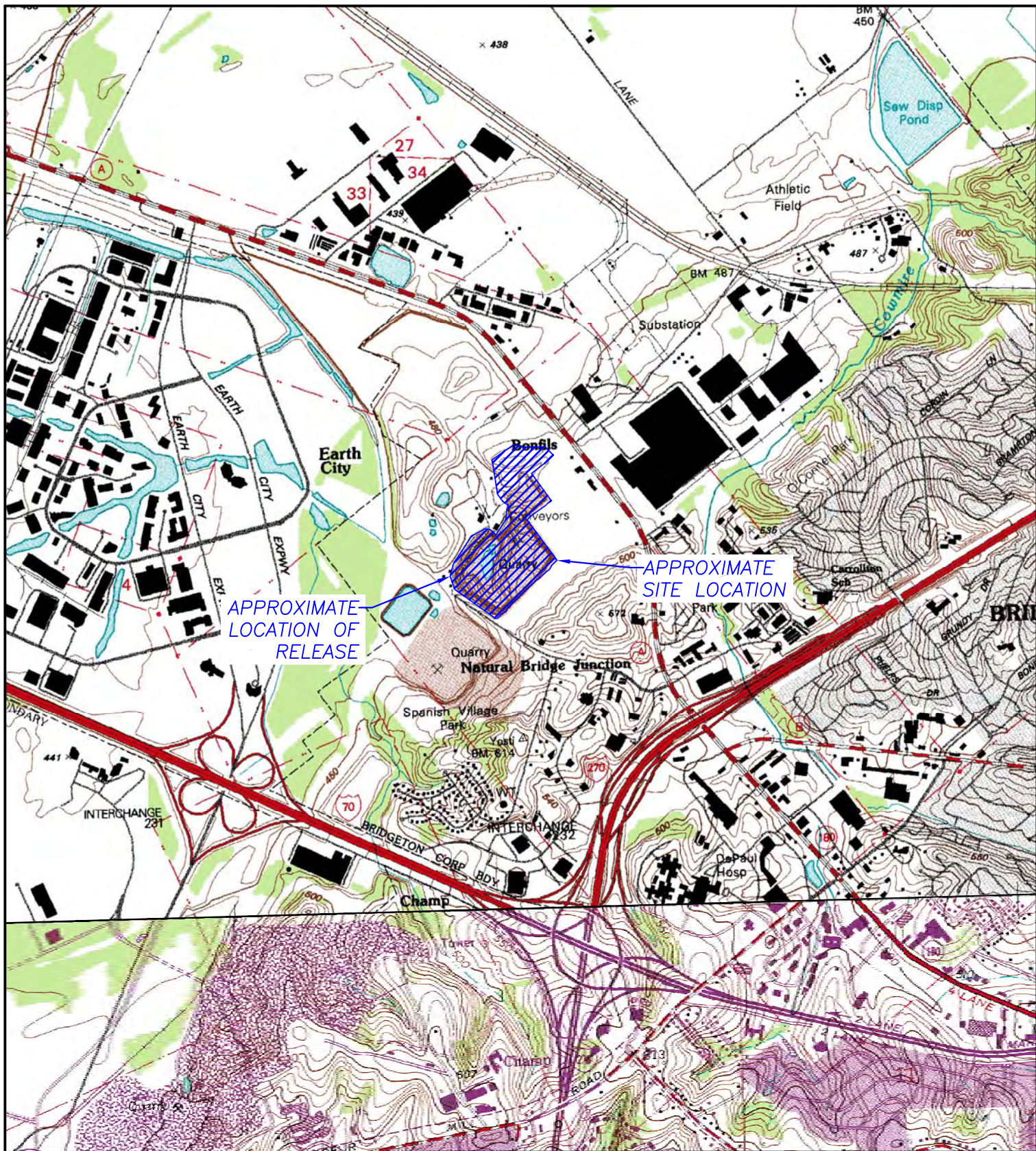
NL - Parameter not listed in the NPDES permit.

* - the combined results of chloride and sulfate cannot exceed 1000 mg/L.

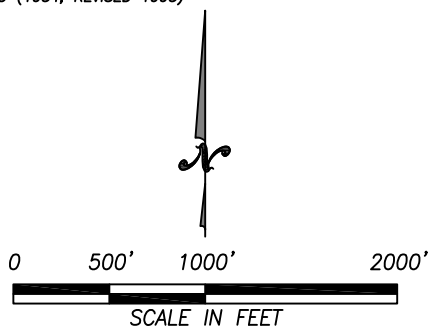
** - Monitoring Requirement only according to the facility NPDES permit.

*** - pH is measured in pH units and is not averaged. The pH is limited to a range of 6.5 to 9.0 pH units.

DRAWINGS



MAP TAKEN FROM USGS QUADRANGLE MAPS ST. CHARLES, MO (1994) AND CREVE COEUR, MO (1954, REVISED 1993)



AQUATERRA

ENVIRONMENTAL SOLUTIONS, INC.

13 Executive Drive, Suite 1
Fairview Heights, Illinois 62208

SITE LOCATION MAP

LEACHATE RELEASE SOIL AND SURFACE WATER SAMPLING
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

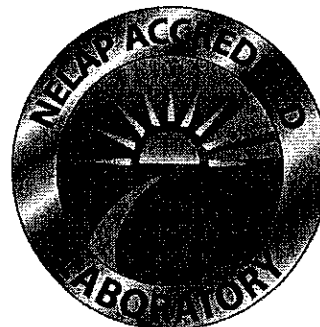
Project Mgr.	AJL	Drawn By	RLH	Designed By	RLH	Project No.	5800.10
Scale	As Shown	Date	03/13/13	File Name	Figure 1.dwg	Figure No.	1

SAMPLING RESULTS

Laboratory Soil and Surface Water Analytical Results
(Collected on February 2, 2013 and February 3, 2013)

February 11, 2013

Michelle Boussad
AQUATERRA Environmental Solution, Inc.
13 Executive Drive, Suite 1
Fairview Heights, IL 62208
TEL: (618) 628-2001
FAX: (618) 628-2002



RE: Bridgeton

WorkOrder: 13020049

Dear Michelle Boussad:

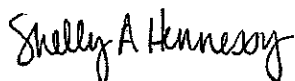
TEKLAB, INC received 1 sample on 2/2/2013 2:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Cooler Receipt Temp: 1.2 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2013	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		5/26/2013	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Lab ID: 13020049-001

Client Sample ID: W-001

Matrix: LEACHATE

Collection Date: 02/02/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		34	mg/L	1	02/04/2013 10:18	R173336
EPA 600.350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	20.0		577	mg/L	200	02/04/2013 16:43	R173363
EPA 600.375.2 REV 2.0 1993 (TOTAL)								
Sulfate	NELAP	500		780	mg/L	50	02/04/2013 15:52	R173333
EPA 600.410.4								
Chemical Oxygen Demand	NELAP	2500		54600	mg/L	50	02/05/2013 7:52	R173335
STANDARD METHOD 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		5.58		1	02/04/2013 12:12	R173312
STANDARD METHODS 2340 C								
Hardness, as (CaCO ₃)	NELAP	5		14700	mg/L	1	02/04/2013 9:26	R173301
STANDARD METHODS 2540 D								
Total Suspended Solids	NELAP	120		460	mg/L	20	02/04/2013 13:45	R173326
STANDARD METHODS 2540 F								
Solids, Settleable	NELAP	0.1		3.0	ml/L	1	02/04/2013 10:15	R173315
STANDARD METHODS 3500-CR B								
Chromium, Hexavalent	NELAP	0.250	SH	0.500	mg/L	50	02/04/2013 11:32	R173309
<i>Results verified by dilution.</i>								
<i>MS and MSD did not recover within control limits due to sample composition.</i>								
<i>Elevated reporting limit due to sample composition.</i>								
STANDARD METHODS 4500-CL E (TOTAL)								
Chloride	NELAP	500		3970	mg/L	100	02/04/2013 13:53	R173334
STANDARD METHODS 5210 B								
Biochemical Oxygen Demand	NELAP	1250		33800	mg/L	250	02/04/2013 11:01	85431
TRIVALENT CHROMIUM								
Trivalent Chromium		0.010	H	< 0.010	mg/L	1	02/04/2013 11:29	R173309
EPA 600.245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00080		0.00736	mg/L	1	02/05/2013 9:54	85444
EPA 600.4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Aluminum	NELAP	0.500		4.09	mg/L	10	02/05/2013 10:44	85443
Antimony	NELAP	0.0500		< 0.0500	mg/L	1	02/05/2013 10:26	85443
Arsenic	NELAP	0.250		0.837	mg/L	10	02/05/2013 10:44	85443
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	02/05/2013 10:26	85443
Cadmium	NELAP	0.0080		< 0.0080	mg/L	1	02/05/2013 10:26	85443
Chromium	NELAP	0.100		0.195	mg/L	10	02/05/2013 10:44	85443
Cobalt	NELAP	0.100		0.176	mg/L	10	02/05/2013 10:44	85443
Copper	NELAP	0.0100		0.0113	mg/L	1	02/05/2013 10:26	85443
Iron	NELAP	0.200		566	mg/L	10	02/05/2013 10:44	85443
Lead	NELAP	0.0400		< 0.0400	mg/L	1	02/05/2013 10:26	85443
Nickel	NELAP	0.100		0.166	mg/L	10	02/05/2013 10:44	85443
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	02/05/2013 10:26	85443
Silver	NELAP	0.0100		0.0122	mg/L	1	02/05/2013 10:26	85443
Thallium	NELAP	0.0500		< 0.0500	mg/L	1	02/05/2013 10:26	85443
Zinc	NELAP	0.100		8.63	mg/L	10	02/05/2013 10:44	85443

Cd - Elevated reporting limit due to high levels of non-target analytes.

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Lab ID: 13020049-001

Client Sample ID: W-001

Matrix: LEACHATE

Collection Date: 02/02/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
1,2-Diphenylhydrazine		0.500		ND	mg/L	25	02/04/2013 16:31	85426
2,4,6-Trichlorophenol	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2,4-Dichlorophenol	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2,4-Dimethylphenol	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2,4-Dinitrophenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
2,4-Dinitrotoluene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2,6-Dinitrotoluene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2-Chloronaphthalene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2-Chlorophenol	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
2-Nitrophenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
3,3'-Dichlorobenzidine	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
4,6-Dinitro-2-methylphenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
4-Bromophenyl phenyl ether	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
4-Chloro-3-methylphenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
4-Chlorophenyl phenyl ether	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
4-Nitrophenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
Acenaphthene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Acenaphthylene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Anthracene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Azobenzene		0.500		ND	mg/L	25	02/04/2013 16:31	85426
Benzo(a)anthracene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Benzo(a)pyrene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Benzo(b)fluoranthene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Benzo(g,h,i)perylene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Benzo(k)fluoranthene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Bis(2-chloroethoxy)methane	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Bis(2-chloroethyl)ether	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Bis(2-chloroisopropyl)ether	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Bis(2-ethylhexyl)phthalate	NELAP	0.300		ND	mg/L	25	02/04/2013 16:31	85426
Butyl benzyl phthalate	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Chrysene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Dibenzo(a,h)anthracene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Diethyl phthalate	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Dimethyl phthalate	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Di-n-butyl phthalate	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Di-n-octyl phthalate	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Fluoranthene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Fluorene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Hexachlorobenzene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Hexachlorobutadiene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Hexachlorocyclopentadiene	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
Hexachloroethane	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Indeno(1,2,3-cd)pyrene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Isophorone	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Naphthalene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Nitrobenzene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Lab ID: 13020049-001

Client Sample ID: W-001

Matrix: LEACHATE

Collection Date: 02/02/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
N-Nitrosodimethylamine	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
N-Nitroso-di-n-propylamine	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
N-Nitrosodiphenylamine	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Pentachlorophenol	NELAP	1.00		ND	mg/L	25	02/04/2013 16:31	85426
Phenanthrene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Phenol	NELAP	0.250		7.70	mg/L	25	02/04/2013 16:31	85426
Pyrene	NELAP	0.500		ND	mg/L	25	02/04/2013 16:31	85426
Surr: 2,4,6-Tribromophenol		26.4-130		85.8	%REC	25	02/04/2013 16:31	85426
Surr: 2-Fluorobiphenyl		38.3-115	S	20.0	%REC	25	02/04/2013 16:31	85426
Surr: 2-Fluorophenol		16.5-65	S	16.1	%REC	25	02/04/2013 16:31	85426
Surr: Nitrobenzene-d5		47.6-107	S	0	%REC	25	02/04/2013 16:31	85426
Surr: Phenol-d5		9.94-41.7		37.0	%REC	25	02/04/2013 16:31	85426
Surr: p-Terphenyl-d14		1-136		19.5	%REC	25	02/04/2013 16:31	85426
<i>Surrogate recovery is outside QC limits due to matrix interference.</i>								
<i>Elevated reporting limit due to sample extract composition.</i>								
EPA 600 624 (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,1,2,2-Tetrachloroethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,1,2-Trichloroethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,1-Dichloroethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,1-Dichloroethene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,2-Dichlorobenzene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,2-Dichloroethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,2-Dichloropropane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,3-Dichlorobenzene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
1,4-Dichlorobenzene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
2-Chloroethyl vinyl ether	NELAP	2000		ND	µg/L	100	02/04/2013 19:18	85446
Acrolein	NELAP	10000		ND	µg/L	100	02/04/2013 19:18	85446
Acrylonitrile	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Benzene	NELAP	200		379	µg/L	100	02/04/2013 19:18	85446
Bromodichloromethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Bromoform	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Bromomethane	NELAP	1000		ND	µg/L	100	02/04/2013 19:18	85446
Carbon tetrachloride	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Chlorobenzene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Chloroethane	NELAP	1000		ND	µg/L	100	02/04/2013 19:18	85446
Chloroform	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Chloromethane	NELAP	1000		ND	µg/L	100	02/04/2013 19:18	85446
cis-1,3-Dichloropropene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Dibromochloromethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Ethylbenzene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
m,p-Xylenes		500		ND	µg/L	100	02/04/2013 19:18	85446
Methylene chloride	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
o-Xylene		500		ND	µg/L	100	02/04/2013 19:18	85446
Tetrachloroethene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Toluene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
trans-1,2-Dichloroethene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Lab ID: 13020049-001

Client Sample ID: W-001

Matrix: LEACHATE

Collection Date: 02/02/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 624 (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS								
trans-1,3-Dichloropropene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Trichloroethene	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Trichlorofluoromethane	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Vinyl chloride	NELAP	200		ND	µg/L	100	02/04/2013 19:18	85446
Xylenes, Total	NELAP	500		ND	µg/L	100	02/04/2013 19:18	85446
Surr: 1,2-Dichloroethane-d4		74.7-129		103.7	%REC	100	02/04/2013 19:18	85446
Surr: 4-Bromofluorobenzene		86-119		99.5	%REC	100	02/04/2013 19:18	85446
Surr: Dibromofluoromethane		81.7-123		101.6	%REC	100	02/04/2013 19:18	85446
Surr: Toluene-d8		84.3-114		99.0	%REC	100	02/04/2013 19:18	85446

Elevated reporting limit due to high levels of target and/or non-target analytes.



Receiving Check List

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020049

Client Project: Bridgeton

Report Date: 11-Feb-13

Carrier: Jason Franks

Received By: JHR

Completed by:

On:

04-Feb-13

Timothy W. Mathis

Reviewed by:

On:

04-Feb-13

Shelly A. Hennessy

Shelly A. Hennessy

Pages to follow:

Chain of custody

1

Extra pages included

1

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 1.2

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☐

No ☒

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - at least one vial per sample has zero headspace?

Yes ☒

No ☐

No VOA vials ☐

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Samples were received with insufficient amount of time to meet hold time requirements for Cr6 analysis. Client was notified of this exceedence via work order summary.

Additional nitric acid and sulfuric acid was needed upon arrival at the laboratory. TWM 2/4/13

pg. _____ of _____ Work Order # 13020049

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ALVAREZ
Address: _____
City / State / Zip: _____
Contact: _____ Phone: _____
E-Mail: _____ Fax: _____

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Project Name / Number		Sample Collector's Name		INDICATE ANALYSIS REQUESTED											
Project Name / Number		Sample Collector's Name		Matrix				INDICATE ANALYSIS REQUESTED							
Project Name / Number		Sample Collector's Name		Matrix				INDICATE ANALYSIS REQUESTED							
Project Name / Number BRIDGTON		Sample Collector's Name JASON P. FRANKS		Matrix Drinking Water Soil Sludge Sp. Waste				INDICATE ANALYSIS REQUESTED 1 2 3 4 5 6 7 8 9 10 11 12							
Results Requested <input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		Billing Instructions		# and Type of Containers UNPRES HNO ₃ NaOH H ₂ SO ₄ HCL MeOH NaHSO ₄ Other				Date / Time 2/2/13 14:30							
Lab Use Only Sample Identification 13020019		Date/Time Sampled 2/2/13 1:20		Water X				Date / Time 2/2/13 14:30							
Relinquished By JASON P. FRANKS		Date / Time 2/2/13 14:30		Received By JASON P. FRANKS				Date / Time 2/2/13 14:30							

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAB YELLOW - SAMPLER'S COPY

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – ALL OUTFALLS	PAGE NUMBER 3 of 5
	PERMIT NUMBER MO-0112771

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect the permit is either reissued, modified, or terminated. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #003, 004, 005, 006, & 007.</u>						
Rainfall	Inches	*		*	Daily	24 hr. total
Flow	MGD	*		*	once/quarter**	24 hr. total
pH – standard units	SU	***		***	once/quarter**	grab****
Biochemical Oxygen Demand	mg/L	45		30	once/quarter**	grab****
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab****
Total Suspended Solids	mg/L	80		60	once/quarter**	grab****
Settleable Solids	ml/L	1.5		1.0	once/quarter**	grab****
Oil & Grease	mg/L	15		10	once/quarter**	grab****
Ammonia as N (April 1 – September 30)	mg/L	3.7		1.4	once/quarter**	grab****
(October 1 – March 31)	mg/L	7.5		2.8	once/quarter**	grab****
Chlorides plus Sulfates	mg/L	1000		*	once/quarter**	grab****
Total Hardness (as CaCO3)	mg/L	*		*	once/quarter**	grab****
Aluminum, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Antimony, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Arsenic, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Beryllium, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Cadmium, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Chromium (III), Total Recoverable	µg/L	*		*	once/quarter**	grab****
Chromium (VI), Dissolved	µg/L	*		*	once/quarter**	grab****
Cobalt, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Copper, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Iron, Total Recoverable	µg/L	1639		817	once/quarter**	grab****
Lead, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Mercury, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Nickel, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Selenium, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Silver, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Thallium, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Zinc, Total Recoverable	µg/L	*		*	once/quarter**	grab****
Benzene	µg/L	*		*	once/quarter**	grab****
Ethylbenzene	µg/L	*		*	once/quarter**	grab****

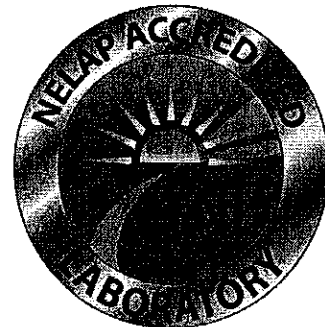
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE July 28, 2011. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

February 05, 2013

Michelle Boussad
AQUATERRA Environmental Solution, Inc.
13 Executive Drive, Suite 1
Fairview Heights, IL 62208
TEL: (618) 628-2001
FAX: (618) 628-2002



RE: Bridgeton

WorkOrder: 13020060

Dear Michelle Boussad:

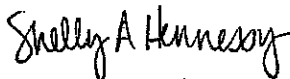
TEKLAB, INC received 3 samples on 2/4/2013 10:30:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Definitions

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Cooler Receipt Temp: 2.0 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlosternann@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2013	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		5/26/2013	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-001

Client Sample ID: ISS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		30.6	%	1	02/04/2013 16:42	R173352
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.35		< 0.35	mg/Kg-dry	1	02/04/2013 17:00	85432
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.72		< 4.72	mg/Kg-dry	1	02/05/2013 9:07	85424
Arsenic	NELAP	2.40		4.08	mg/Kg-dry	1	02/05/2013 9:31	85437
Beryllium	NELAP	0.10		0.45	mg/Kg-dry	1	02/05/2013 9:31	85437
Cadmium	NELAP	0.19		0.19	mg/Kg-dry	1	02/05/2013 9:31	85437
Chromium	NELAP	0.96		14.2	mg/Kg-dry	1	02/05/2013 9:31	85437
Copper	NELAP	0.96		15.8	mg/Kg-dry	1	02/05/2013 9:31	85437
Lead	NELAP	3.85		24.8	mg/Kg-dry	1	02/05/2013 9:31	85437
Nickel	NELAP	0.96		15.2	mg/Kg-dry	1	02/05/2013 9:31	85437
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	02/05/2013 9:31	85437
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	02/05/2013 9:31	85437
Thallium	NELAP	4.81		< 4.81	mg/Kg-dry	1	02/05/2013 9:31	85437
Zinc	NELAP	0.96		74.8	mg/Kg-dry	1	02/05/2013 9:31	85437
SW-846 7471B								
Mercury	NELAP	0.014		0.032	mg/Kg-dry	1	02/04/2013 13:53	85430
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
4,4'-DDE	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
4,4'-DDT	NELAP	240		ND	µg/Kg-dry	100	02/04/2013 19:28	85436
Alachlor	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aldrin	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
alpha-BHC	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
alpha-Chlordane	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
beta-BHC	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Chlordane	NELAP	4.80		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
delta-BHC	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Dieldrin	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endosulfan I	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endosulfan II	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endosulfan sulfate	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endrin	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endrin aldehyde	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Endrin ketone	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
gamma-BHC	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
gamma-Chlordane	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Heptachlor	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Heptachlor epoxide	NELAP	2.40		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Methoxychlor	NELAP	240		ND	µg/Kg-dry	100	02/04/2013 19:28	85436
Toxaphene	NELAP	43.1		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Sum: Decachlorobiphenyl		48-149		84.0	%REC	1	02/04/2013 22:19	85436
Sum: Tetrachloro-m-xylene		19-145		70.4	%REC	1	02/04/2013 22:19	85436
<i>Elevated reporting limit due to matrix interference.</i>								
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-001

Client Sample ID: ISS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1221	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Aroclor 1232	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Aroclor 1242	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Aroclor 1248	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Aroclor 1254	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Aroclor 1260	NELAP	53.8		ND	µg/Kg-dry	1	02/05/2013 11:02	85436
Surr: Decachlorobiphenyl		5-156		101.7	%REC	1	02/05/2013 11:02	85436
Surr: Tetrachloro-meta-xylene		7.35-123		88.7	%REC	1	02/05/2013 11:02	85436
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	7.20	S	ND	mg/Kg-dry	10	02/04/2013 18:15	85435
1,2-Dichlorobenzene	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
1,3-Dichlorobenzene	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
1,4-Dichlorobenzene	NELAP	7.20	S	ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4,5-Trichlorophenol	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4,6-Trichlorophenol	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4-Dichlorophenol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4-Dimethylphenol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4-Dinitrophenol	NELAP	14.4		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,4-Dinitrotoluene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2,6-Dinitrotoluene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Chloronaphthalene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Chlorophenol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Methoxy-4-methylphenol		9.36		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Methylnaphthalene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Nitroaniline	NELAP	14.4		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
2-Nitrophenol	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
3,3'-Dichlorobenzidine	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
3-Nitroaniline	NELAP	14.4		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4,6-Dinitro-2-methylphenol	NELAP	14.4		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Bromophenyl phenyl ether	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Chloro-3-methylphenol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Chloroaniline	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Chlorophenyl phenyl ether	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Nitroaniline	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
4-Nitrophenol	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Acenaphthene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Acenaphthylene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Aniline	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Anthracene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Azobenzene		5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzo(a)anthracene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzo(a)pyrene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzo(b)fluoranthene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzo(g,h,i)perylene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzo(k)fluoranthene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzoic acid	NELAP	21.6		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Benzyl alcohol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-001

Client Sample ID: ISS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethoxy)methane	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Bis(2-chloroethyl)ether	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Bis(2-chloroisopropyl)ether	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Bis(2-ethylhexyl)phthalate	NELAP	5.04	SR	ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Butyl benzyl phthalate	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Carbazole		7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Chrysene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Dibenzo(a,h)anthracene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Dibenzofuran	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Diethyl phthalate	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Dimethyl phthalate	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Di-n-butyl phthalate	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Di-n-octyl phthalate	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Fluoranthene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Fluorene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Hexachlorobenzene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Hexachlorobutadiene	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Hexachlorocyclopentadiene	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Hexachloroethane	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Indeno(1,2,3-cd)pyrene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Isophorone	NELAP	5.04		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
m,p-Cresol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Naphthalene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Nitrobenzene	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
N-Nitrosodimethylamine	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
N-Nitroso-di-n-propylamine	NELAP	7.20	S	ND	mg/Kg-dry	10	02/04/2013 18:15	85435
N-Nitrosodiphenylamine	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
o-Cresol	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Pentachlorophenol	NELAP	28.8	S	ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Phenanthrene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Phenol	NELAP	5.04		6.73	mg/Kg-dry	10	02/04/2013 18:15	85435
Pyrene	NELAP	0.490		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Pyridine	NELAP	7.20		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
1,2-Diphenylhydrazine		12.1		ND	mg/Kg-dry	10	02/04/2013 18:15	85435
Surr: 2,4,6-Tribromophenol		32.7-130		58.8	%REC	10	02/04/2013 18:15	85435
Surr: 2-Fluorobiphenyl		34.1-116		67.3	%REC	10	02/04/2013 18:15	85435
Surr: 2-Fluorophenol		30.5-99		77.4	%REC	10	02/04/2013 18:15	85435
Surr: Nitrobenzene-d5		34.1-101		70.9	%REC	10	02/04/2013 18:15	85435
Surr: Phenol-d5		34.9-110		95.2	%REC	10	02/04/2013 18:15	85435
Surr: p-Terphenyl-d14		41.7-124		69.0	%REC	10	02/04/2013 18:15	85435

Matrix spike was outside the QC limits due to sample dilution.

Elevated reporting limit due to sample extract composition.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1,1-Trichloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1,2,2-Tetrachloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1,2-Trichloro-1,2,2-trifluoroethane		159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-001

Client Sample ID: ISS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,2-Trichloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1-Dichloro-2-propanone		1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1-Dichloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1-Dichloroethene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,1-Dichloropropene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2,3-Trichlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2,3-Trichloropropane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2,3-Trimethylbenzene		159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2,4-Trichlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2,4-Trimethylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2-Dibromo-3-chloropropane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2-Dibromoethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2-Dichlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2-Dichloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,2-Dichloropropane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,3,5-Trimethylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,3-Dichlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,3-Dichloropropane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1,4-Dichlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
1-Chlorobutane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
2,2-Dichloropropane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
2-Butanone	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
2-Chlorotoluene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
2-Hexanone	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
2-Nitropropane	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
4-Chlorotoluene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
4-Methyl-2-pentanone	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Acetone	NELAP	1590		2850	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Acrolein	NELAP	3180		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Acrylonitrile	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Allyl chloride	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Benzene	NELAP	31.8		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Bromobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Bromochloromethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Bromodichloromethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Bromoform	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Bromomethane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Carbon disulfide	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Carbon tetrachloride	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Chlorobenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Chloroethane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Chloroform	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Chloromethane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
cis-1,2-Dichloroethene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
cis-1,3-Dichloropropene	NELAP	127		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Cyclohexanone		3180		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Dibromochloromethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-001

Client Sample ID: ISS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dibromomethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Dichlorodifluoromethane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Ethyl ether	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Ethyl methacrylate	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Ethylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Hexachlorobutadiene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Hexachloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Iodomethane	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Isopropylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
m,p-Xylenes	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Methacrylonitrile	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Methyl Methacrylate	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Methyl tert-butyl ether	NELAP	63.6		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Methylacrylate		318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Methylene chloride	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Naphthalene	NELAP	318		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
n-Butylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
n-Heptane		636		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
n-Hexane		636		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Nitrobenzene	NELAP	3180		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
n-Propylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
o-Xylene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Pentachloroethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
p-Isopropyltoluene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Propionitrile	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
sec-Butylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Styrene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
tert-Butylbenzene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Tetrachloroethene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Tetrahydrofuran	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Toluene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
trans-1,2-Dichloroethene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
trans-1,3-Dichloropropene	NELAP	127		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Trichloroethene	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Trichlorofluoromethane	NELAP	159		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Vinyl acetate	NELAP	1590		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Vinyl chloride	NELAP	63.6		ND	µg/Kg-dry	12.5	02/04/2013 20:00	85434
Surr: 1,2-Dichloroethane-d4		72.2-131		96.6	%REC	12.5	02/04/2013 20:00	85434
Surr: 4-Bromofluorobenzene		82.1-116		87.4	%REC	12.5	02/04/2013 20:00	85434
Surr: Dibromofluoromethane		77.7-120		85.7	%REC	12.5	02/04/2013 20:00	85434
Surr: Toluene-d8		86-116		105.5	%REC	12.5	02/04/2013 20:00	85434

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-002

Client Sample ID: BGSS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		18.0	%	1	02/04/2013 16:43	R173352
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.30		< 0.30	mg/Kg-dry	1	02/04/2013 17:05	85432
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.55		< 4.55	mg/Kg-dry	1	02/05/2013 9:11	85424
Arsenic	NELAP	2.40		4.28	mg/Kg-dry	1	02/05/2013 9:43	85437
Beryllium	NELAP	0.10		0.36	mg/Kg-dry	1	02/05/2013 9:43	85437
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	02/05/2013 9:43	85437
Chromium	NELAP	0.96		11.4	mg/Kg-dry	1	02/05/2013 9:43	85437
Copper	NELAP	0.96		9.31	mg/Kg-dry	1	02/05/2013 9:43	85437
Lead	NELAP	3.85		7.90	mg/Kg-dry	1	02/05/2013 9:43	85437
Nickel	NELAP	0.96		13.5	mg/Kg-dry	1	02/05/2013 9:43	85437
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	02/05/2013 9:43	85437
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	02/05/2013 9:43	85437
Thallium	NELAP	4.81		< 4.81	mg/Kg-dry	1	02/05/2013 9:43	85437
Zinc	NELAP	0.96		32.2	mg/Kg-dry	1	02/05/2013 9:43	85437
SW-846 7471B								
Mercury	NELAP	0.012		0.017	mg/Kg-dry	1	02/04/2013 13:53	85430
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
4,4'-DDE	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
4,4'-DDT	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Alachlor	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Aldrin	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
alpha-BHC	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
alpha-Chlordane	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
beta-BHC	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Chlordane	NELAP	4.07		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
delta-BHC	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Dieldrin	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endosulfan I	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endosulfan II	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endosulfan sulfate	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endrin	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endrin aldehyde	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Endrin ketone	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
gamma-BHC	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
gamma-Chlordane	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Heptachlor	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Heptachlor epoxide	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Methoxychlor	NELAP	2.04		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Toxaphene	NELAP	36.6		ND	µg/Kg-dry	1	02/04/2013 19:52	85436
Surr: Decachlorobiphenyl		48-149		83.5	%REC	1	02/04/2013 19:52	85436
Surr: Tetrachloro-m-xylene		19-145		61.1	%REC	1	02/04/2013 19:52	85436
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aroclor 1221	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-002

Client Sample ID: BGSS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1232	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aroclor 1242	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aroclor 1248	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aroclor 1254	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Aroclor 1260	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:19	85436
Surr: Decachlorobiphenyl		5-156		92.2	%REC	1	02/04/2013 22:19	85436
Surr: Tetrachloro-meta-xylene		7.35-123		69.7	%REC	1	02/04/2013 22:19	85436
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
1,2-Dichlorobenzene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
1,3-Dichlorobenzene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
1,4-Dichlorobenzene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4,5-Trichlorophenol	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4,6-Trichlorophenol	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4-Dichlorophenol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4-Dimethylphenol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4-Dinitrophenol	NELAP	1.22		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,4-Dinitrotoluene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2,6-Dinitrotoluene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Chloronaphthalene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Chlorophenol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Methoxy-4-methylphenol		0.794		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Methylnaphthalene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Nitroaniline	NELAP	1.22		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
2-Nitrophenol	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
3,3'-Dichlorobenzidine	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
3-Nitroaniline	NELAP	1.22		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4,6-Dinitro-2-methylphenol	NELAP	1.22		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Bromophenyl phenyl ether	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Chloro-3-methylphenol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Chloroaniline	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Chlorophenyl phenyl ether	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Nitroaniline	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
4-Nitrophenol	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Acenaphthene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Acenaphthylene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Aniline	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Anthracene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Azobenzene		0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzo(a)anthracene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzo(a)pyrene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzo(b)fluoranthene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzo(g,h,i)perylene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzo(k)fluoranthene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzoic acid	NELAP	1.83		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Benzyl alcohol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Bis(2-chloroethoxy)methane	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-002

Client Sample ID: BGSS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Bis(2-chloroisopropyl)ether	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Bis(2-ethylhexyl)phthalate	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Butyl benzyl phthalate	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Carbazole		0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Chrysene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Dibenzo(a,h)anthracene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Dibenzofuran	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Diethyl phthalate	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Dimethyl phthalate	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Di-n-butyl phthalate	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Di-n-octyl phthalate	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Fluoranthene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Fluorene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Hexachlorobenzene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Hexachlorobutadiene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Hexachlorocyclopentadiene	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Hexachloroethane	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Indeno(1,2,3-cd)pyrene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Isophorone	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
m,p-Cresol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Naphthalene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Nitrobenzene	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
N-Nitrosodimethylamine	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
N-Nitroso-di-n-propylamine	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
N-Nitrosodiphenylamine	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
o-Cresol	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Pentachlorophenol	NELAP	2.44		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Phenanthrene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Phenol	NELAP	0.427		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Pyrene	NELAP	0.042		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Pyridine	NELAP	0.610		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
1,2-Diphenylhydrazine		1.03		ND	mg/Kg-dry	1	02/04/2013 17:10	85435
Surr: 2,4,6-Tribromophenol		32.7-130		80.7	%REC	1	02/04/2013 17:10	85435
Surr: 2-Fluorobiphenyl		34.1-116		67.4	%REC	1	02/04/2013 17:10	85435
Surr: 2-Fluorophenol		30.5-99		80.0	%REC	1	02/04/2013 17:10	85435
Surr: Nitrobenzene-d5		34.1-101		84.4	%REC	1	02/04/2013 17:10	85435
Surr: Phenol-d5		34.9-110		83.0	%REC	1	02/04/2013 17:10	85435
Surr: p-Terphenyl-d14		41.7-124		67.7	%REC	1	02/04/2013 17:10	85435
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1,1-Trichloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1,2,2-Tetrachloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1,2-Trichloro-1,2,2-trifluoroethane		163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1,2-Trichloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1-Dichloro-2-propanone		1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1-Dichloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-002

Client Sample ID: BGSS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,1-Dichloropropene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2,3-Trichlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2,3-Trichloropropane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2,3-Trimethylbenzene		163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2,4-Trichlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2,4-Trimethylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2-Dibromo-3-chloropropane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2-Dibromoethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2-Dichlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2-Dichloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,2-Dichloropropane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,3,5-Trimethylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,3-Dichlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,3-Dichloropropane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1,4-Dichlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
1-Chlorobutane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
2,2-Dichloropropane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
2-Butanone	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
2-Chlorotoluene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
2-Hexanone	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
2-Nitropropane	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
4-Chlorotoluene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
4-Methyl-2-pentanone	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Acetone	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Acrolein	NELAP	3260		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Acrylonitrile	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Allyl chloride	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Benzene	NELAP	32.6		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Bromobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Bromochloromethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Bromodichloromethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Bromoform	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Bromomethane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Carbon disulfide	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Carbon tetrachloride	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Chlorobenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Chloroethane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Chloroform	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Chloromethane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
cis-1,2-Dichloroethene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
cis-1,3-Dichloropropene	NELAP	131		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Cyclohexanone		3260		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Dibromochloromethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Dibromomethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Dichlorodifluoromethane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Ethyl ether	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-002

Client Sample ID: BGSS-001

Matrix: SOLID

Collection Date: 02/02/2013 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Ethylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Hexachlorobutadiene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Hexachloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Iodomethane	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Isopropylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
m,p-Xylenes	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Methacrylonitrile	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Methyl Methacrylate	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Methyl tert-butyl ether	NELAP	65.3		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Methylacrylate		326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Methylene chloride	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Naphthalene	NELAP	326		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
n-Butylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
n-Heptane		653		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
n-Hexane		653		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Nitrobenzene	NELAP	3260		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
n-Propylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
o-Xylene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Pentachloroethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
p-Isopropyltoluene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Propionitrile	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
sec-Butylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Styrene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
tert-Butylbenzene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Tetrachloroethene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Tetrahydrofuran	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Toluene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
trans-1,2-Dichloroethene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
trans-1,3-Dichloropropene	NELAP	131		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Trichloroethene	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Trichlorofluoromethane	NELAP	163		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Vinyl acetate	NELAP	1630		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Vinyl chloride	NELAP	65.3		ND	µg/Kg-dry	12.5	02/04/2013 20:26	85434
Surr: 1,2-Dichloroethane-d4		72.2-131		94.3	%REC	12.5	02/04/2013 20:26	85434
Surr: 4-Bromofluorobenzene		82.1-116		99.1	%REC	12.5	02/04/2013 20:26	85434
Surr: Dibromofluoromethane		77.7-120		83.8	%REC	12.5	02/04/2013 20:26	85434
Surr: Toluene-d8		86-116		107.4	%REC	12.5	02/04/2013 20:26	85434

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-003

Client Sample ID: WCSS-001

Matrix: SOLID

Collection Date: 02/03/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		29.0	%	1	02/04/2013 16:43	R173352
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.37		< 0.37	mg/Kg-dry	1	02/04/2013 17:22	85432
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	5.00		< 5.00	mg/Kg-dry	1	02/05/2013 9:14	85424
Arsenic	NELAP	2.36		6.96	mg/Kg-dry	1	02/05/2013 9:46	85437
Beryllium	NELAP	0.09		0.58	mg/Kg-dry	1	02/05/2013 9:46	85437
Cadmium	NELAP	0.19		0.27	mg/Kg-dry	1	02/05/2013 9:46	85437
Chromium	NELAP	0.94		16.8	mg/Kg-dry	1	02/05/2013 9:46	85437
Copper	NELAP	0.94		15.5	mg/Kg-dry	1	02/05/2013 9:46	85437
Lead	NELAP	3.77		12.2	mg/Kg-dry	1	02/05/2013 9:46	85437
Nickel	NELAP	0.94		18.6	mg/Kg-dry	1	02/05/2013 9:46	85437
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	02/05/2013 9:46	85437
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	02/05/2013 9:46	85437
Thallium	NELAP	4.72		< 4.72	mg/Kg-dry	1	02/05/2013 9:46	85437
Zinc	NELAP	0.94		59.6	mg/Kg-dry	1	02/05/2013 9:46	85437
SW-846 7471B								
Mercury	NELAP	0.014		0.033	mg/Kg-dry	1	02/04/2013 13:53	85430
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
4,4'-DDE	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
4,4'-DDT	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Alachlor	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Aldrin	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
alpha-BHC	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
alpha-Chlordane	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
beta-BHC	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Chlordane	NELAP	4.70		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
delta-BHC	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Dieldrin	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endosulfan I	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endosulfan II	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endosulfan sulfate	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endrin	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endrin aldehyde	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Endrin ketone	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
gamma-BHC	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
gamma-Chlordane	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Heptachlor	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Heptachlor epoxide	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Methoxychlor	NELAP	2.35		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Toxaphene	NELAP	42.2		ND	µg/Kg-dry	1	02/04/2013 21:06	85436
Surr: Decachlorobiphenyl		48-149		81.9	%REC	1	02/04/2013 21:06	85436
Surr: Tetrachloro-m-xylene		19-145		56.6	%REC	1	02/04/2013 21:06	85436
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Aroclor 1221	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-003

Client Sample ID: WCSS-001

Matrix: SOLID

Collection Date: 02/03/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1232	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Aroclor 1242	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Aroclor 1248	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Aroclor 1254	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Aroclor 1260	NELAP	37.5		ND	µg/Kg-dry	1	02/04/2013 22:36	85436
Surr: Decachlorobiphenyl		5-156		83.6	%REC	1	02/04/2013 22:36	85436
Surr: Tetrachloro-meta-xylene		7.35-123		64.6	%REC	1	02/04/2013 22:36	85436
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
1,2-Dichlorobenzene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
1,3-Dichlorobenzene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
1,4-Dichlorobenzene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4,5-Trichlorophenol	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4,6-Trichlorophenol	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4-Dichlorophenol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4-Dimethylphenol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4-Dinitrophenol	NELAP	1.41		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,4-Dinitrotoluene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2,6-Dinitrotoluene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Chloronaphthalene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Chlorophenol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Methoxy-4-methylphenol		0.914		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Methylnaphthalene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Nitroaniline	NELAP	1.41		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
2-Nitrophenol	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
3,3'-Dichlorobenzidine	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
3-Nitroaniline	NELAP	1.41		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4,6-Dinitro-2-methylphenol	NELAP	1.41		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Bromophenyl phenyl ether	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Chloro-3-methylphenol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Chloroaniline	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Chlorophenyl phenyl ether	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Nitroaniline	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
4-Nitrophenol	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Acenaphthene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Acenaphthylene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Aniline	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Anthracene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Azobenzene		0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzo(a)anthracene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzo(a)pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzo(b)fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzo(g,h,i)perylene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzo(k)fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzoic acid	NELAP	2.11		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Benzyl alcohol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Bis(2-chloroethoxy)methane	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-003

Client Sample ID: WCSS-001

Matrix: SOLID

Collection Date: 02/03/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Bis(2-chloroisopropyl)ether	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Bis(2-ethylhexyl)phthalate	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Butyl benzyl phthalate	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Carbazole		0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Chrysene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Dibenzo(a,h)anthracene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Dibenzofuran	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Diethyl phthalate	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Dimethyl phthalate	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Di-n-butyl phthalate	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Di-n-octyl phthalate	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Fluorene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Hexachlorobenzene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Hexachlorobutadiene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Hexachlorocyclopentadiene	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Hexachloroethane	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Indeno(1,2,3-cd)pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Isophorone	NELAP	0.492		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
m,p-Cresol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Naphthalene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Nitrobenzene	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
N-Nitrosodimethylamine	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
N-Nitroso-di-n-propylamine	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
N-Nitrosodiphenylamine	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
o-Cresol	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Pentachlorophenol	NELAP	2.81		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Phenanthrene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Phenol	NELAP	0.492		0.871	mg/Kg-dry	1	02/04/2013 17:42	85435
Pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Pyridine	NELAP	0.703		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
1,2-Diphenylhydrazine		1.18		ND	mg/Kg-dry	1	02/04/2013 17:42	85435
Surr: 2,4,6-Tribromophenol		32.7-130		90.4	%REC	1	02/04/2013 17:42	85435
Surr: 2-Fluorobiphenyl		34.1-116		57.8	%REC	1	02/04/2013 17:42	85435
Surr: 2-Fluorophenol		30.5-99		80.3	%REC	1	02/04/2013 17:42	85435
Surr: Nitrobenzene-d5		34.1-101		71.9	%REC	1	02/04/2013 17:42	85435
Surr: Phenol-d5		34.9-110		90.2	%REC	1	02/04/2013 17:42	85435
Surr: p-Terphenyl-d14		41.7-124		67.8	%REC	1	02/04/2013 17:42	85435
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1,1-Trichloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1,2,2-Tetrachloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1,2-Trichloro-1,2,2-trifluoroethane		174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1,2-Trichloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1-Dichloro-2-propanone		1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1-Dichloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-003

Client Sample ID: WCSS-001

Matrix: SOLID

Collection Date: 02/03/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,1-Dichloropropene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2,3-Trichlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2,3-Trichloropropane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2,3-Trimethylbenzene		174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2,4-Trichlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2,4-Trimethylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2-Dibromo-3-chloropropane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2-Dibromoethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2-Dichlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2-Dichloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,2-Dichloropropane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,3,5-Trimethylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,3-Dichlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,3-Dichloropropane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1,4-Dichlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
1-Chlorobutane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
2,2-Dichloropropane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
2-Butanone	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
2-Chlorotoluene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
2-Hexanone	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
2-Nitropropane	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
4-Chlorotoluene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
4-Methyl-2-pentanone	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Acetone	NELAP	1740		4680	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Acrolein	NELAP	3470		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Acrylonitrile	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Allyl chloride	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Benzene	NELAP	34.7		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Bromobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Bromochloromethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Bromodichloromethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Bromoform	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Bromomethane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Carbon disulfide	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Carbon tetrachloride	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Chlorobenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Chloroethane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Chloroform	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Chloromethane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
cis-1,2-Dichloroethene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
cis-1,3-Dichloropropene	NELAP	139		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Cyclohexanone		3470		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Dibromochloromethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Dibromomethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Dichlorodifluoromethane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Ethyl ether	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Lab ID: 13020060-003

Client Sample ID: WCSS-001

Matrix: SOLID

Collection Date: 02/03/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Ethylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Hexachlorobutadiene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Hexachloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Iodomethane	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Isopropylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
m,p-Xylenes	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Methacrylonitrile	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Methyl Methacrylate	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Methyl tert-butyl ether	NELAP	69.4		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Methylacrylate		347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Methylene chloride	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Naphthalene	NELAP	347		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
n-Butylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
n-Heptane		694		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
n-Hexane		694		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Nitrobenzene	NELAP	3470		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
n-Propylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
o-Xylene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Pentachloroethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
p-Isopropyltoluene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Propionitrile	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
sec-Butylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Styrene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
tert-Butylbenzene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Tetrachloroethene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Tetrahydrofuran	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Toluene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
trans-1,2-Dichloroethene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
trans-1,3-Dichloropropene	NELAP	139		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Trichloroethene	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Trichlorofluoromethane	NELAP	174		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Vinyl acetate	NELAP	1740		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Vinyl chloride	NELAP	69.4		ND	µg/Kg-dry	12.5	02/05/2013 13:23	85464
Surr: 1,2-Dichloroethane-d4		72.2-131		99.3	%REC	12.5	02/05/2013 13:23	85464
Surr: 4-Bromofluorobenzene		82.1-116		105.3	%REC	12.5	02/05/2013 13:23	85464
Surr: Dibromofluoromethane		77.7-120		115.3	%REC	12.5	02/05/2013 13:23	85464
Surr: Toluene-d8		86-116	S	85.3	%REC	12.5	02/05/2013 13:23	85464

Surrogate recovery is outside QC limits due to matrix interference.

Elevated reporting limit due to high levels of target and non-target analytes.



Receiving Check List

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020060

Client Project: Bridgeton

Report Date: 05-Feb-13

Carrier: Employee

Received By: TWM

Completed by:

On:

04-Feb-13

Emily E. Pohlman

Reviewed by:

On:

04-Feb-13

Shelly A. Hennessy

Pages to follow: Chain of custody

1

Extra pages included

2

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 2.0

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pg. 6 of 7 Work Order # 13020040

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: AGUATEIRA
 Address: _____
 City / State / Zip: _____
 Contact: _____ Phone: _____
 E-Mail: _____ Fax: _____

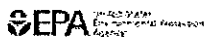
- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Samples on: <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> No Ice $Q.D$ °C Preserved in: <input type="checkbox"/> Lab <input type="checkbox"/> Field <u>FOR LAB USE ONLY</u> Lab Notes:	Comments:
---	-----------

[illegible]

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement; on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAB YELLOW - SAMPLER'S COPY



Lab Methods

You are here: [Water](#) » [Science & Technology](#) » [Surface Water Standards & Guidance](#) » [Lab Methods](#) » Priority Pollutants

[Share](#)

Priority Pollutants

Priority pollutants are a set of chemical pollutants we regulate, and for which we have developed analytical test methods. The current list of 126 Priority Pollutants, shown below, can also be found in [Appendix A to 40 CFR Part 423](#).

[Background on this List](#)

1. Acenaphthene
2. Acrolein
3. Acrylonitrile
4. Benzene
5. Benzidine
6. Carbon tetrachloride
7. Chlorobenzene
8. 1,2,4-trichlorobenzene
9. Hexachlorobenzene
10. 1,2-dichloroethane
11. 1,1,1-trichloroethane
12. Hexachloroethane
13. 1,1-dichloroethane
14. 1,1,2-trichloroethane
15. 1,1,2,2-tetrachloroethane
16. Chloroethane
17. REMOVED
18. Bis(2-chloroethyl) ether
19. 2-chloroethyl vinyl ethers
20. 2-chloronaphthalene
21. 2,4,6-trichlorophenol
22. Parachlorometa cresol
23. Chloroform
24. 2-chlorophenol
25. 1,2-dichlorobenzene
26. 1,3-dichlorobenzene
27. 1,4-dichlorobenzene
28. 3,3-dichlorobenzidine
29. 1,1-dichloroethylene
30. 1,2-trans-dichloroethylene
31. 2,4-dichlorophenol
32. 1,2-dichloropropane
33. 1,2-dichloropropylene
34. 2,4-dimethylphenol
35. 2,4-dinitrotoluene
36. 2,6-dinitrotoluene
37. 1,2-diphenylhydrazine
38. Ethylbenzene
39. Fluoranthene
40. 4-chlorophenyl phenyl ether
41. 4-bromophenyl phenyl ether
42. Bis(2-chloroisopropyl) ether
43. Bis(2-chloroethoxy) methane
44. Methylene chloride
45. Methyl chloride
46. Methyl bromide
47. Bromoform
48. Dichlorobromomethane
49. REMOVED
50. REMOVED
51. Chlorodibromomethane
52. Hexachlorobutadiene
53. Hexachlorocyclopentadiene
54. Isophorone
55. Naphthalene
56. Nitrobenzene
57. 2-nitrophenol
58. 4-nitrophenol
59. 2,4-dinitrophenol
60. 4,6-dinitro-o-cresol
61. N-nitrosodimethylamine
62. N-nitrosodiphenylamine

<http://water.epa.gov/scitech/swguidance/methods/pollutants.cfm>

63. N-nitrosodi-n-propylamine
64. Pentachlorophenol
65. Phenol
66. Bis(2-ethylhexyl) phthalate
67. Butyl benzyl phthalate
68. Di-N-Butyl Phthalate
69. Di-n-octyl phthalate
70. Diethyl Phthalate
71. Dimethyl phthalate
72. benzo(a) anthracene
73. Benzo(a)pyrene
74. Benzo(b) fluoranthene
75. Benzo(b) fluoranthene
76. Chrysene
77. Acenaphthylene
78. Anthracene
79. Benzo(ghi) perylene
80. Fluorene
81. Phenanthrene
82. Dibenzo(h) anthracene
83. Indeno (1,2,3-cd) pyrene
84. Pyrene
85. Tetrachloroethylene
86. Toluene
87. Trichloroethylene
88. Vinyl chloride
89. Aldrin
90. Dieldrin
91. Chlordane
92. 4,4-DDT
93. 4,4-DDE
94. 4,4-DDD
95. Alpha-endosulfan
96. Beta-endosulfan
97. Endosulfan sulfate
98. Endrin
99. Endrin aldehyde
100. Heptachlor
101. Heptachlor epoxide
102. Alpha-BHC
103. Beta-BHC
104. Gamma-BHC
105. Delta-BHC
106. PCB-1242 (Arochlor 1242)
107. PCB-1254 (Arochlor 1254)
108. PCB-1221 (Arochlor 1221)
109. PCB-1232 (Arochlor 1232)
110. PCB-1248 (Arochlor 1248)
111. PCB-1260 (Arochlor 1260)
112. PCB-1016 (Arochlor 1016)
113. Toxaphene
114. Antimony
115. Arsenic
116. Asbestos
117. Beryllium
118. Cadmium
119. Chromium
120. Copper
121. Cyanide, Total
122. Lead
123. Mercury
124. Nickel
125. Selenium
126. Silver
127. Thallium
128. Zinc
129. 2,3,7,8-TCDD

Last updated on Wednesday, March 31, 2010.

Laboratory Confirmation Soil and Surface Water Analytical Results
(Collected on February 20, 2013)

February 27, 2013

Robert Hill II
AQUATERRA Environmental Solution, Inc.
13 Executive Drive, Suite 1
Fairview Heights, IL 62208
TEL: (618) 628-2001
FAX: (618) 628-2002



RE: Bridgeton

WorkOrder: 13020962

Dear Robert Hill II:

TEKLAB, INC received 4 samples on 2/20/2013 4:47:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Definitions

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCS D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Cooler Receipt Temp: 2.6 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2013	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		5/26/2013	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-001

Client Sample ID: SSW-01

Matrix: SOLID

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		25.6	%	1	02/21/2013 15:12	R174068
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.38		< 0.38	mg/Kg-dry	1	02/25/2013 14:16	86018
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.81		< 4.81	mg/Kg-dry	1	02/22/2013 15:19	85946
Arsenic	NELAP	2.36		4.42	mg/Kg-dry	1	02/22/2013 16:14	85948
Beryllium	NELAP	0.09		0.38	mg/Kg-dry	1	02/22/2013 16:14	85948
Cadmium	NELAP	0.19		0.19	mg/Kg-dry	1	02/22/2013 16:14	85948
Chromium	NELAP	0.94		13.2	mg/Kg-dry	1	02/22/2013 16:14	85948
Copper	NELAP	0.94		11.4	mg/Kg-dry	1	02/22/2013 16:14	85948
Lead	NELAP	3.77		9.41	mg/Kg-dry	1	02/22/2013 16:14	85948
Nickel	NELAP	0.94		13.6	mg/Kg-dry	1	02/22/2013 16:14	85948
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	02/22/2013 16:14	85948
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	02/22/2013 16:14	85948
Thallium	NELAP	4.72		< 4.72	mg/Kg-dry	1	02/22/2013 16:14	85948
Zinc	NELAP	0.94		56.5	mg/Kg-dry	1	02/22/2013 16:14	85948
SW-846 7471B								
Mercury	NELAP	0.013		0.022	mg/Kg-dry	1	02/25/2013 11:08	85983
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
4,4'-DDE	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
4,4'-DDT	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Alachlor	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Aldrin	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
alpha-BHC	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
alpha-Chlordane	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
beta-BHC	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Chlordane	NELAP	4.48		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
delta-BHC	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Dieldrin	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endosulfan I	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endosulfan II	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endosulfan sulfate	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endrin	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endrin aldehyde	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Endrin ketone	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
gamma-BHC	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
gamma-Chlordane	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Heptachlor	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Heptachlor epoxide	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Methoxychlor	NELAP	2.24		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Toxaphene	NELAP	40.2		ND	µg/Kg-dry	1	02/25/2013 20:45	85981
Surr: Decachlorobiphenyl		48-149		94.5	%REC	1	02/25/2013 20:45	85981
Surr: Tetrachloro-m-xylene		19-145		68.7	%REC	1	02/25/2013 20:45	85981
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Aroclor 1221	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-001

Client Sample ID: SSW-01

Matrix: SOLID

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/EC								
Aroclor 1232	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Aroclor 1242	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Aroclor 1248	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Aroclor 1254	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Aroclor 1260	NELAP	50.3		ND	µg/Kg-dry	1	02/25/2013 11:05	85981
Surr: Decachlorobiphenyl		5-156		113.6	%REC	1	02/25/2013 11:05	85981
Surr: Tetrachloro-meta-xylene		7.35-123		67.3	%REC	1	02/25/2013 11:05	85981
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
1,2-Dichlorobenzene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
1,3-Dichlorobenzene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
1,4-Dichlorobenzene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4,5-Trichlorophenol	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4,6-Trichlorophenol	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4-Dichlorophenol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4-Dimethylphenol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4-Dinitrophenol	NELAP	1.35		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,4-Dinitrotoluene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2,6-Dinitrotoluene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Chloronaphthalene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Chlorophenol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Methoxy-4-methylphenol		0.875		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Methylnaphthalene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Nitroaniline	NELAP	1.35		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
2-Nitrophenol	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
3,3'-Dichlorobenzidine	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
3-Nitroaniline	NELAP	1.35		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4,6-Dinitro-2-methylphenol	NELAP	1.35		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Bromophenyl phenyl ether	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Chloro-3-methylphenol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Chloroaniline	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Chlorophenyl phenyl ether	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Nitroaniline	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
4-Nitrophenol	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Acenaphthene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Acenaphthylene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Aniline	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Anthracene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Azobenzene		0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzo(a)anthracene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzo(a)pyrene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzo(b)fluoranthene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzo(g,h,i)perylene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzo(k)fluoranthene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzoic acid	NELAP	2.02		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Benzyl alcohol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Bis(2-chloroethoxy)methane	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-001

Client Sample ID: SSW-01

Matrix: SOLID

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Bis(2-chloroisopropyl)ether	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Bis(2-ethylhexyl)phthalate	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Butyl benzyl phthalate	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Carbazole		0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Chrysene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Dibenzo(a,h)anthracene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Dibenzofuran	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Diethyl phthalate	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Dimethyl phthalate	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Di-n-butyl phthalate	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Di-n-octyl phthalate	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Fluoranthene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Fluorene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Hexachlorobenzene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Hexachlorobutadiene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Hexachlorocyclopentadiene	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Hexachloroethane	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Indeno(1,2,3-cd)pyrene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Isophorone	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
m,p-Cresol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Naphthalene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Nitrobenzene	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
N-Nitrosodimethylamine	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
N-Nitroso-di-n-propylamine	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
N-Nitrosodiphenylamine	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
o-Cresol	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Pentachlorophenol	NELAP	2.69		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Phenanthrene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Phenol	NELAP	0.471		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Pyrene	NELAP	0.046		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Pyridine	NELAP	0.673		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
1,2-Diphenylhydrazine		1.13		ND	mg/Kg-dry	1	02/22/2013 10:17	85911
Surr: 2,4,6-Tribromophenol		32.7-130		76.3	%REC	1	02/22/2013 10:17	85911
Surr: 2-Fluorobiphenyl		34.1-116		75.8	%REC	1	02/22/2013 10:17	85911
Surr: 2-Fluorophenol		30.5-99		83.9	%REC	1	02/22/2013 10:17	85911
Surr: Nitrobenzene-d5		34.1-101		85.3	%REC	1	02/22/2013 10:17	85911
Surr: Phenol-d5		34.9-110		89.4	%REC	1	02/22/2013 10:17	85911
Surr: p-Terphenyl-d14		41.7-124		69.5	%REC	1	02/22/2013 10:17	85911
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1,1-Trichloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1,2,2-Tetrachloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1,2-Trichloro-1,2,2-trifluoroethane		5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1,2-Trichloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1-Dichloro-2-propanone		59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1-Dichloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-001

Client Sample ID: SSW-01

Matrix: SOLID

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,1-Dichloropropene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2,3-Trichlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2,3-Trichloropropane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2,3-Trimethylbenzene		5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2,4-Trichlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2,4-Trimethylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2-Dibromo-3-chloropropane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2-Dibromoethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2-Dichlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2-Dichloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,2-Dichloropropane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,3,5-Trimethylbenzene	NELAP	5.9	J	3.1	µg/Kg-dry	1	02/22/2013 13:18	85985
1,3-Dichlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,3-Dichloropropane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1,4-Dichlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
1-Chlorobutane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
2,2-Dichloropropane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
2-Butanone	NELAP	59.5		155	µg/Kg-dry	1	02/22/2013 13:18	85985
2-Chlorotoluene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
2-Hexanone	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
2-Nitropropane	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
4-Chlorotoluene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
4-Methyl-2-pentanone	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Acetone	NELAP	59.5		395	µg/Kg-dry	1	02/22/2013 13:18	85985
Acrolein	NELAP	119		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Acrylonitrile	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Allyl chloride	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Benzene	NELAP	1.2		2.6	µg/Kg-dry	1	02/22/2013 13:18	85985
Bromobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Bromochloromethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Bromodichloromethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Bromoform	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Bromomethane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Carbon disulfide	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Carbon tetrachloride	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Chlorobenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Chloroethane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Chloroform	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Chloromethane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
cis-1,2-Dichloroethene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
cis-1,3-Dichloropropene	NELAP	4.8		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Cyclohexanone		119		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Dibromochloromethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Dibromomethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Dichlorodifluoromethane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Ethyl ether	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-001

Client Sample ID: SSW-01

Matrix: SOLID

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Ethylbenzene	NELAP	5.9	J	2.1	µg/Kg-dry	1	02/22/2013 13:18	85985
Hexachlorobutadiene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Hexachloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Iodomethane	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Isopropylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
m,p-Xylenes	NELAP	5.9	J	3.9	µg/Kg-dry	1	02/22/2013 13:18	85985
Methacrylonitrile	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Methyl Methacrylate	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Methyl tert-butyl ether	NELAP	2.4		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Methylacrylate	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Methylene chloride	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Naphthalene	NELAP	11.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
n-Butylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
n-Heptane		23.8		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
n-Hexane		23.8	J	4.8	µg/Kg-dry	1	02/22/2013 13:18	85985
Nitrobenzene	NELAP	119		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
n-Propylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
o-Xylene	NELAP	5.9	J	1.5	µg/Kg-dry	1	02/22/2013 13:18	85985
Pentachloroethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
p-Isopropyltoluene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Propionitrile	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
sec-Butylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Styrène	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
tert-Butylbenzene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Tetrachloroethene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Tetrahydrofuran	NELAP	59.5		88.9	µg/Kg-dry	1	02/22/2013 13:18	85985
Toluene	NELAP	5.9		6.8	µg/Kg-dry	1	02/22/2013 13:18	85985
trans-1,2-Dichloroethene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
trans-1,3-Dichloropropene	NELAP	4.8		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Trichloroethene	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Trichlorofluoromethane	NELAP	5.9		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Vinyl acetate	NELAP	59.5		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Vinyl chloride	NELAP	2.4		ND	µg/Kg-dry	1	02/22/2013 13:18	85985
Surr: 1,2-Dichloroethane-d4		72.2-131		116.3	%REC	1	02/22/2013 13:18	85985
Surr: 4-Bromofluorobenzene		82.1-116		101.9	%REC	1	02/22/2013 13:18	85985
Surr: Dibromofluoromethane		77.7-120		108.4	%REC	1	02/22/2013 13:18	85985
Surr: Toluene-d8		86-116		99.1	%REC	1	02/22/2013 13:18	85985



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-002

Client Sample ID: SS-02

Matrix: SOLID

Collection Date: 02/20/2013 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		24.5	%	1	02/21/2013 15:12	R174068
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.34		< 0.34	mg/Kg-dry	1	02/25/2013 14:42	86018
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.72		< 4.72	mg/Kg-dry	1	02/22/2013 15:23	85946
Arsenic	NELAP	2.45		6.14	mg/Kg-dry	1	02/22/2013 16:18	85948
Beryllium	NELAP	0.10		0.46	mg/Kg-dry	1	02/22/2013 16:18	85948
Cadmium	NELAP	0.20		0.21	mg/Kg-dry	1	02/22/2013 16:18	85948
Chromium	NELAP	0.98		15.1	mg/Kg-dry	1	02/22/2013 16:18	85948
Copper	NELAP	0.98		13.0	mg/Kg-dry	1	02/22/2013 16:18	85948
Lead	NELAP	3.92		9.38	mg/Kg-dry	1	02/22/2013 16:18	85948
Nickel	NELAP	0.98		16.8	mg/Kg-dry	1	02/22/2013 16:18	85948
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	02/22/2013 16:18	85948
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	02/22/2013 16:18	85948
Thallium	NELAP	4.90		< 4.90	mg/Kg-dry	1	02/22/2013 16:18	85948
Zinc	NELAP	0.98		48.1	mg/Kg-dry	1	02/22/2013 16:18	85948
SW-846 7471B								
Mercury	NELAP	0.013		0.030	mg/Kg-dry	1	02/25/2013 11:11	85983
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
4,4'-DDE	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
4,4'-DDT	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Alachlor	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Aldrin	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
alpha-BHC	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
alpha-Chlordane	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
beta-BHC	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Chlordane	NELAP	4.40		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
delta-BHC	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Dieldrin	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endosulfan I	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endosulfan II	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endosulfan sulfate	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endrin	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endrin aldehyde	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Endrin ketone	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
gamma-BHC	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
gamma-Chlordane	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Heptachlor	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Heptachlor epoxide	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Methoxychlor	NELAP	2.20		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Toxaphene	NELAP	39.5		ND	µg/Kg-dry	1	02/25/2013 21:09	85981
Surr: Decachlorobiphenyl		48-149		82.9	%REC	1	02/25/2013 21:09	85981
Surr: Tetrachloro-m-xylene		19-145		56.9	%REC	1	02/25/2013 21:09	85981
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Aroclor 1221	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-002

Client Sample ID: SS-02

Matrix: SOLID

Collection Date: 02/20/2013 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/EC								
Aroclor 1232	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Aroclor 1242	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Aroclor 1248	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Aroclor 1254	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Aroclor 1260	NELAP	49.4		ND	µg/Kg-dry	1	02/25/2013 11:22	85981
Surr: Decachlorobiphenyl		5-156		94.1	%REC	1	02/25/2013 11:22	85981
Surr: Tetrachloro-meta-xylene		7.35-123		54.4	%REC	1	02/25/2013 11:22	85981
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
1,2-Dichlorobenzene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
1,3-Dichlorobenzene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
1,4-Dichlorobenzene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4,5-Trichlorophenol	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4,6-Trichlorophenol	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4-Dichlorophenol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4-Dimethylphenol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4-Dinitrophenol	NELAP	1.32		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,4-Dinitrotoluene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2,6-Dinitrotoluene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Chloronaphthalene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Chlorophenol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Methoxy-4-methylphenol		0.858		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Methylnaphthalene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Nitroaniline	NELAP	1.32		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
2-Nitrophenol	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
3,3'-Dichlorobenzidine	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
3-Nitroaniline	NELAP	1.32		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4,6-Dinitro-2-methylphenol	NELAP	1.32		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Bromophenyl phenyl ether	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Chloro-3-methylphenol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Chloroaniline	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Chlorophenyl phenyl ether	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Nitroaniline	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
4-Nitrophenol	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Acenaphthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Acenaphthylene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Aniline	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Anthracene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Azobenzene		0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzo(a)anthracene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzo(a)pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzo(b)fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzo(g,h,i)perylene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzo(k)fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzoic acid	NELAP	1.98		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Benzyl alcohol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Bis(2-chloroethoxy)methane	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-002

Client Sample ID: SS-02

Matrix: SOLID

Collection Date: 02/20/2013 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Bis(2-chloroisopropyl)ether	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Bis(2-ethylhexyl)phthalate	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Butyl benzyl phthalate	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Carbazole		0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Chrysene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Dibenzo(a,h)anthracene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Dibenzofuran	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Diethyl phthalate	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Dimethyl phthalate	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Di-n-butyl phthalate	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Di-n-octyl phthalate	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Fluorene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Hexachlorobenzene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Hexachlorobutadiene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Hexachlorocyclopentadiene	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Hexachloroethane	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Indeno(1,2,3-cd)pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Isophorone	NELAP	0.462		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
m,p-Cresol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Naphthalene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Nitrobenzene	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
N-Nitrosodimethylamine	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
N-Nitroso-di-n-propylamine	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
N-Nitrosodiphenylamine	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
o-Cresol	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Pentachlorophenol	NELAP	2.64		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Phenanthrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Phenol	NELAP	0.462	J	0.22	mg/Kg-dry	1	02/22/2013 10:43	85911
Pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Pyridine	NELAP	0.660		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
1,2-Diphenylhydrazine		1.11		ND	mg/Kg-dry	1	02/22/2013 10:43	85911
Surr: 2,4,6-Tribromophenol		32.7-130		71.4	%REC	1	02/22/2013 10:43	85911
Surr: 2-Fluorobiphenyl		34.1-116		70.3	%REC	1	02/22/2013 10:43	85911
Surr: 2-Fluorophenol		30.5-99		80.7	%REC	1	02/22/2013 10:43	85911
Surr: Nitrobenzene-d5		34.1-101		81.7	%REC	1	02/22/2013 10:43	85911
Surr: Phenol-d5		34.9-110		85.3	%REC	1	02/22/2013 10:43	85911
Surr: p-Terphenyl-d14		41.7-124		66.8	%REC	1	02/22/2013 10:43	85911
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1,1-Trichloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1,2,2-Tetrachloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1,2-Trichloro-1,2,2-trifluoroethane		5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1,2-Trichloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1-Dichloro-2-propanone		53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1-Dichloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985



Laboratory Results

<http://www.teklabin.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-002

Client Sample ID: SS-02

Matrix: SOLID

Collection Date: 02/20/2013 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,1-Dichloropropene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2,3-Trichlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2,3-Trichloropropane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2,3-Trimethylbenzene		5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2,4-Trichlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2,4-Trimethylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2-Dibromo-3-chloropropane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2-Dibromoethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2-Dichlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2-Dichloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,2-Dichloropropane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,3,5-Trimethylbenzene	NELAP	5.3	J	3.2	µg/Kg-dry	1	02/22/2013 13:44	85985
1,3-Dichlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,3-Dichloropropane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1,4-Dichlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
1-Chlorobutane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
2,2-Dichloropropane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
2-Butanone	NELAP	53.5		512	µg/Kg-dry	1	02/22/2013 13:44	85985
2-Chlorotoluene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
2-Hexanone	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
2-Nitropropane	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
4-Chlorotoluene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
4-Methyl-2-pentanone	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Acetone	NELAP	1340	J	600	µg/Kg-dry	12.5	02/26/2013 19:37	86066
Acrolein	NELAP	107		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Acrylonitrile	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Allyl chloride	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Benzene	NELAP	1.1		3.5	µg/Kg-dry	1	02/22/2013 13:44	85985
Bromobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Bromochloromethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Bromodichloromethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Bromoform	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Bromomethane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Carbon disulfide	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Carbon tetrachloride	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Chlorobenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Chloroethane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Chloroform	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Chloromethane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
cis-1,2-Dichloroethene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
cis-1,3-Dichloropropene	NELAP	4.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Cyclohexanone		107		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Dibromochloromethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Dibromomethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Dichlorodifluoromethane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Ethyl ether	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-002

Client Sample ID: SS-02

Matrix: SOLID

Collection Date: 02/20/2013 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Ethylbenzene	NELAP	5.3	J	1.9	µg/Kg-dry	1	02/22/2013 13:44	85985
Hexachlorobutadiene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Hexachloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Iodomethane	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Isopropylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
m,p-Xylenes	NELAP	5.3	J	3.7	µg/Kg-dry	1	02/22/2013 13:44	85985
Methacrylonitrile	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Methyl Methacrylate	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Methyl tert-butyl ether	NELAP	2.1		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Methylacrylate	NELAP	10.7		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Methylene chloride	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Naphthalene	NELAP	10.7	J	2.6	µg/Kg-dry	1	02/22/2013 13:44	85985
n-Butylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
n-Heptane		21.4		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
n-Hexane		21.4	J	4.4	µg/Kg-dry	1	02/22/2013 13:44	85985
Nitrobenzene	NELAP	107		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
n-Propylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
o-Xylene	NELAP	5.3	J	1.6	µg/Kg-dry	1	02/22/2013 13:44	85985
Pentachloroethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
p-Isopropyltoluene	NELAP	5.3		9.2	µg/Kg-dry	1	02/22/2013 13:44	85985
Propionitrile	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
sec-Butylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Styrene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
tert-Butylbenzene	NELAP	5.3		11.6	µg/Kg-dry	1	02/22/2013 13:44	85985
Tetrachloroethene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Tetrahydrofuran	NELAP	53.5		151	µg/Kg-dry	1	02/22/2013 13:44	85985
Toluene	NELAP	5.3	J	3.9	µg/Kg-dry	1	02/22/2013 13:44	85985
trans-1,2-Dichloroethene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
trans-1,3-Dichloropropene	NELAP	4.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Trichloroethene	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Trichlorofluoromethane	NELAP	5.3		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Vinyl acetate	NELAP	53.5		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Vinyl chloride	NELAP	2.1		ND	µg/Kg-dry	1	02/22/2013 13:44	85985
Surr: 1,2-Dichloroethane-d4		72.2-131		123.0	%REC	1	02/22/2013 13:44	85985
Surr: 4-Bromofluorobenzene		82.1-116		108.9	%REC	1	02/22/2013 13:44	85985
Surr: Dibromofluoromethane		77.7-120		108.5	%REC	1	02/22/2013 13:44	85985
Surr: Toluene-d8		86-116		95.5	%REC	1	02/22/2013 13:44	85985



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-003

Client Sample ID: SS-03

Matrix: SOLID

Collection Date: 02/20/2013 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		28.6	%	1	02/21/2013 15:12	R174068
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.33	J	0.17	mg/Kg-dry	1	02/25/2013 14:46	86018
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	5.00		< 5.00	mg/Kg-dry	1	02/22/2013 15:38	85946
Arsenic	NELAP	2.50		8.71	mg/Kg-dry	1	02/22/2013 16:22	85948
Beryllium	NELAP	0.10		0.68	mg/Kg-dry	1	02/22/2013 16:22	85948
Cadmium	NELAP	0.20		0.32	mg/Kg-dry	1	02/22/2013 16:22	85948
Chromium	NELAP	1.00		19.8	mg/Kg-dry	1	02/22/2013 16:22	85948
Copper	NELAP	1.00		19.6	mg/Kg-dry	1	02/22/2013 16:22	85948
Lead	NELAP	4.00		15.9	mg/Kg-dry	1	02/22/2013 16:22	85948
Nickel	NELAP	1.00		23.0	mg/Kg-dry	1	02/22/2013 16:22	85948
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	02/22/2013 16:22	85948
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	02/22/2013 16:22	85948
Thallium	NELAP	5.00		< 5.00	mg/Kg-dry	1	02/22/2013 16:22	85948
Zinc	NELAP	1.00		73.1	mg/Kg-dry	1	02/22/2013 16:22	85948
SW-846 7471B								
Mercury	NELAP	0.014		0.043	mg/Kg-dry	1	02/25/2013 11:13	85983
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
4,4'-DDE	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
4,4'-DDT	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Alachlor	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Aldrin	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
alpha-BHC	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
alpha-Chlordane	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
beta-BHC	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Chlordane	NELAP	4.66		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
delta-BHC	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Dieldrin	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endosulfan I	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endosulfan II	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endosulfan sulfate	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endrin	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endrin aldehyde	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Endrin ketone	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
gamma-BHC	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
gamma-Chlordane	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Heptachlor	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Heptachlor epoxide	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Methoxychlor	NELAP	2.33		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Toxaphene	NELAP	41.8		ND	µg/Kg-dry	1	02/25/2013 21:34	85981
Surr: Decachlorobiphenyl		48-149		61.1	%REC	1	02/25/2013 21:34	85981
Surr: Tetrachloro-m-xylene		19-145		43.2	%REC	1	02/25/2013 21:34	85981
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Aroclor 1221	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-003

Client Sample ID: SS-03

Matrix: SOLID

Collection Date: 02/20/2013 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1232	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Aroclor 1242	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Aroclor 1248	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Aroclor 1254	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Aroclor 1260	NELAP	52.3		ND	µg/Kg-dry	1	02/25/2013 12:14	85981
Surr: Decachlorobiphenyl		5-156		71.1	%REC	1	02/25/2013 12:14	85981
Surr: Tetrachloro-meta-xylene		7.35-123		39.2	%REC	1	02/25/2013 12:14	85981
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
1,2-Dichlorobenzene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
1,3-Dichlorobenzene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
1,4-Dichlorobenzene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4,5-Trichlorophenol	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4,6-Trichlorophenol	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4-Dichlorophenol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4-Dimethylphenol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4-Dinitrophenol	NELAP	1.40		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,4-Dinitrotoluene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2,6-Dinitrotoluene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Chloronaphthalene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Chlorophenol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Methoxy-4-methylphenol		0.910		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Methylnaphthalene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Nitroaniline	NELAP	1.40		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
2-Nitrophenol	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
3,3'-Dichlorobenzidine	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
3-Nitroaniline	NELAP	1.40		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4,6-Dinitro-2-methylphenol	NELAP	1.40		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Bromophenyl phenyl ether	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Chloro-3-methylphenol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Chloroaniline	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Chlorophenyl phenyl ether	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Nitroaniline	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
4-Nitrophenol	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Acenaphthene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Acenaphthylene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Aniline	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Anthracene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Azobenzene		0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzo(a)anthracene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzo(a)pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzo(b)fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzo(g,h,i)perylene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzo(k)fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzoic acid	NELAP	2.10		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Benzyl alcohol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Bis(2-chloroethoxy)methane	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-003

Client Sample ID: SS-03

Matrix: SOLID

Collection Date: 02/20/2013 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Bis(2-chloroisopropyl)ether	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Bis(2-ethylhexyl)phthalate	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Butyl benzyl phthalate	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Carbazole		0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Chrysene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Dibenzo(a,h)anthracene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Dibenzofuran	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Diethyl phthalate	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Dimethyl phthalate	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Di-n-butyl phthalate	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Di-n-octyl phthalate	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Fluoranthene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Fluorene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Hexachlorobenzene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Hexachlorobutadiene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Hexachlorocyclopentadiene	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Hexachloroethane	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Indeno(1,2,3-cd)pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Isophorone	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
m,p-Cresol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Naphthalene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Nitrobenzene	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
N-Nitrosodimethylamine	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
N-Nitroso-di-n-propylamine	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
N-Nitrosodiphenylamine	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
o-Cresol	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Pentachlorophenol	NELAP	2.80		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Phenanthrene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Phenol	NELAP	0.490		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Pyrene	NELAP	0.048		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Pyridine	NELAP	0.700		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
1,2-Diphenylhydrazine		1.18		ND	mg/Kg-dry	1	02/22/2013 11:09	85911
Surr: 2,4,6-Tribromophenol		32.7-130		68.5	%REC	1	02/22/2013 11:09	85911
Surr: 2-Fluorobiphenyl		34.1-116		55.2	%REC	1	02/22/2013 11:09	85911
Surr: 2-Fluorophenol		30.5-99		75.2	%REC	1	02/22/2013 11:09	85911
Surr: Nitrobenzene-d5		34.1-101		77.0	%REC	1	02/22/2013 11:09	85911
Surr: Phenol-d5		34.9-110		79.8	%REC	1	02/22/2013 11:09	85911
Surr: p-Terphenyl-d14		41.7-124		64.8	%REC	1	02/22/2013 11:09	85911
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1,1-Trichloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1,2,2-Tetrachloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1,2-Trichloro-1,2,2-trifluoroethane		7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1,2-Trichloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1-Dichloro-2-propanone		73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1-Dichloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-003

Client Sample ID: SS-03

Matrix: SOLID

Collection Date: 02/20/2013 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,1-Dichloropropene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2,3-Trichlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2,3-Trichloropropane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2,3-Trimethylbenzene		7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2,4-Trichlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2,4-Trimethylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2-Dibromo-3-chloropropane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2-Dibromoethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2-Dichlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2-Dichloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,2-Dichloropropane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,3,5-Trimethylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,3-Dichlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,3-Dichloropropane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1,4-Dichlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
1-Chlorobutane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
2,2-Dichloropropane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
2-Butanone	NELAP	73.3	J	24	µg/Kg-dry	1	02/25/2013 19:05	86039
2-Chlorotoluene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
2-Hexanone	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
2-Nitropropane	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
4-Chlorotoluene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
4-Methyl-2-pentanone	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Acetone	NELAP	73.3		99.2	µg/Kg-dry	1	02/25/2013 19:05	86039
Acrolein	NELAP	147		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Acrylonitrile	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Allyl chloride	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Benzene	NELAP	1.5		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Bromobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Bromochloromethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Bromodichloromethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Bromoform	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Bromomethane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Carbon disulfide	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Carbon tetrachloride	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Chlorobenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Chloroethane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Chloroform	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Chloromethane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
cis-1,2-Dichloroethene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
cis-1,3-Dichloropropene	NELAP	5.9		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Cyclohexanone		147		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Dibromochloromethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Dibromomethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Dichlorodifluoromethane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Ethyl ether	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-003

Client Sample ID: SS-03

Matrix: SOLID

Collection Date: 02/20/2013 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Ethylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Hexachlorobutadiene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Hexachloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Iodomethane	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Isopropylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
m,p-Xylenes	NELAP	7.3	J	1.5	µg/Kg-dry	1	02/25/2013 19:05	86039
Methacrylonitrile	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Methyl Methacrylate	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Methyl tert-butyl ether	NELAP	2.9		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Methylacrylate	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Methylene chloride	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Naphthalene	NELAP	14.7		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
n-Butylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
n-Heptane		29.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
n-Hexane		29.3	J	4.6	µg/Kg-dry	1	02/25/2013 19:05	86039
Nitrobenzene	NELAP	147		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
n-Propylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
o-Xylene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Pentachloroethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
p-Isopropyltoluene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Propionitrile	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
sec-Butylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Styrene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
tert-Butylbenzene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Tetrachloroethene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Tetrahydrofuran	NELAP	73.3	J	30	µg/Kg-dry	1	02/25/2013 19:05	86039
Toluene	NELAP	7.3	J	2.0	µg/Kg-dry	1	02/25/2013 19:05	86039
trans-1,2-Dichloroethene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
trans-1,3-Dichloropropene	NELAP	5.9		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Trichloroethene	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Trichlorofluoromethane	NELAP	7.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Vinyl acetate	NELAP	73.3		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Vinyl chloride	NELAP	2.9		ND	µg/Kg-dry	1	02/25/2013 19:05	86039
Surr: 1,2-Dichloroethane-d4		72.2-131		98.1	%REC	1	02/25/2013 19:05	86039
Surr: 4-Bromofluorobenzene		82.1-116		106.1	%REC	1	02/25/2013 19:05	86039
Surr: Dibromofluoromethane		77.7-120		102.3	%REC	1	02/25/2013 19:05	86039
Surr: Toluene-d8		86-116		98.1	%REC	1	02/25/2013 19:05	86039



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-004

Client Sample ID: SSE-04

Matrix: SOLID

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		25.2	%	1	02/21/2013 15:12	R174068
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.32		< 0.32	mg/Kg-dry	1	02/25/2013 14:51	86018
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	5.00		< 5.00	mg/Kg-dry	1	02/22/2013 15:41	85946
Arsenic	NELAP	2.36		5.52	mg/Kg-dry	1	02/22/2013 16:25	85948
Beryllium	NELAP	0.09		0.42	mg/Kg-dry	1	02/22/2013 16:25	85948
Cadmium	NELAP	0.19		0.20	mg/Kg-dry	1	02/22/2013 16:25	85948
Chromium	NELAP	0.94		13.9	mg/Kg-dry	1	02/22/2013 16:25	85948
Copper	NELAP	0.94		13.1	mg/Kg-dry	1	02/22/2013 16:25	85948
Lead	NELAP	3.77		15.0	mg/Kg-dry	1	02/22/2013 16:25	85948
Nickel	NELAP	0.94		15.8	mg/Kg-dry	1	02/22/2013 16:25	85948
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	02/22/2013 16:25	85948
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	02/22/2013 16:25	85948
Thallium	NELAP	4.72		< 4.72	mg/Kg-dry	1	02/22/2013 16:25	85948
Zinc	NELAP	0.94		48.1	mg/Kg-dry	1	02/22/2013 16:25	85948
SW-846 7471B								
Mercury	NELAP	0.013		0.025	mg/Kg-dry	1	02/25/2013 11:16	85983
SW-846 3550B, 8081B, CHLORINATED PESTICIDES BY GC/ECD								
4,4'-DDD	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
4,4'-DDE	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
4,4'-DDT	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Alachlor	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Aldrin	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
alpha-BHC	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
alpha-Chlordane	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
beta-BHC	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Chlordane	NELAP	4.45		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
delta-BHC	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Dieldrin	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endosulfan I	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endosulfan II	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endosulfan sulfate	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endrin	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endrin aldehyde	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Endrin ketone	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
gamma-BHC	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
gamma-Chlordane	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Heptachlor	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Heptachlor epoxide	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Methoxychlor	NELAP	2.22		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Toxaphene	NELAP	39.9		ND	µg/Kg-dry	1	02/25/2013 21:58	85981
Surr: Decachlorobiphenyl		48-149		54.6	%REC	1	02/25/2013 21:58	85981
Surr: Tetrachloro-m-xylene		19-145		35.1	%REC	1	02/25/2013 21:58	85981
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1016	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Aroclor 1221	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-004

Client Sample ID: SSE-04

Matrix: SOLID

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD								
Aroclor 1232	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Aroclor 1242	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Aroclor 1248	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Aroclor 1254	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Aroclor 1260	NELAP	49.9		ND	µg/Kg-dry	1	02/25/2013 12:31	85981
Surr: Decachlorobiphenyl		5-156		62.0	%REC	1	02/25/2013 12:31	85981
Surr: Tetrachloro-meta-xylene		7.35-123		35.0	%REC	1	02/25/2013 12:31	85981
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
1,2-Dichlorobenzene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
1,3-Dichlorobenzene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
1,4-Dichlorobenzene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4,5-Trichlorophenol	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4,6-Trichlorophenol	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4-Dichlorophenol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4-Dimethylphenol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4-Dinitrophenol	NELAP	1.33		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,4-Dinitrotoluene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2,6-Dinitrotoluene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Chloronaphthalene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Chlorophenol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Methoxy-4-methylphenol		0.866		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Methylnaphthalene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Nitroaniline	NELAP	1.33		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
2-Nitrophenol	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
3,3'-Dichlorobenzidine	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
3-Nitroaniline	NELAP	1.33		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4,6-Dinitro-2-methylphenol	NELAP	1.33		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Bromophenyl phenyl ether	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Chloro-3-methylphenol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Chloroaniline	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Chlorophenyl phenyl ether	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Nitroaniline	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
4-Nitrophenol	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Acenaphthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Acenaphthylene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Aniline	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Anthracene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Azobenzene		0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzo(a)anthracene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzo(a)pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzo(b)fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzo(g,h,i)perylene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzo(k)fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzoic acid	NELAP	2.00		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Benzyl alcohol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Bis(2-chloroethoxy)methane	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-004

Client Sample ID: SSE-04

Matrix: SOLID

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bis(2-chloroethyl)ether	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Bis(2-chloroisopropyl)ether	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Bis(2-ethylhexyl)phthalate	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Butyl benzyl phthalate	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Carbazole		0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Chrysene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Dibenzo(a,h)anthracene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Dibenzofuran	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Diethyl phthalate	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Dimethyl phthalate	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Di-n-butyl phthalate	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Di-n-octyl phthalate	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Fluoranthene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Fluorene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Hexachlorobenzene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Hexachlorobutadiene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Hexachlorocyclopentadiene	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Hexachloroethane	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Indeno(1,2,3-cd)pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Isophorone	NELAP	0.466		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
m,p-Cresol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Naphthalene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Nitrobenzene	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
N-Nitrosodimethylamine	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
N-Nitroso-di-n-propylamine	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
N-Nitrosodiphenylamine	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
o-Cresol	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Pentachlorophenol	NELAP	2.66		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Phenanthrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Phenol	NELAP	0.466	J	0.42	mg/Kg-dry	1	02/22/2013 11:35	85911
Pyrene	NELAP	0.045		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Pyridine	NELAP	0.666		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
1,2-Diphenylhydrazine		1.12		ND	mg/Kg-dry	1	02/22/2013 11:35	85911
Surr: 2,4,6-Tribromophenol		32.7-130		72.1	%REC	1	02/22/2013 11:35	85911
Surr: 2-Fluorobiphenyl		34.1-116		62.1	%REC	1	02/22/2013 11:35	85911
Surr: 2-Fluorophenol		30.5-99		75.5	%REC	1	02/22/2013 11:35	85911
Surr: Nitrobenzene-d5		34.1-101		75.9	%REC	1	02/22/2013 11:35	85911
Surr: Phenol-d5		34.9-110		79.1	%REC	1	02/22/2013 11:35	85911
Surr: p-Terphenyl-d14		41.7-124		65.7	%REC	1	02/22/2013 11:35	85911
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1,1-Trichloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1,2,2-Tetrachloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1,2-Trichloro-1,2,2-trifluoroethane		5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1,2-Trichloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1-Dichloro-2-propanone		50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1-Dichloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-004

Client Sample ID: SSE-04

Matrix: SOLID

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1-Dichloroethene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,1-Dichloropropene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2,3-Trichlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2,3-Trichloropropane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2,3-Trimethylbenzene		5.1	J	1.3	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2,4-Trichlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2,4-Trimethylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2-Dibromo-3-chloropropane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2-Dibromoethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2-Dichlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2-Dichloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,2-Dichloropropane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,3,5-Trimethylbenzene	NELAP	5.1		5.2	µg/Kg-dry	1	02/25/2013 19:31	86039
1,3-Dichlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,3-Dichloropropane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1,4-Dichlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
1-Chlorobutane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
2,2-Dichloropropane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
2-Butanone	NELAP	1200	J	740	µg/Kg-dry	12.5	02/26/2013 20:03	86066
2-Chlorotoluene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
2-Hexanone	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
2-Nitropropane	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
4-Chlorotoluene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
4-Methyl-2-pentanone	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Acetone	NELAP	1200		2240	µg/Kg-dry	12.5	02/26/2013 20:03	86066
Acrolein	NELAP	102		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Acrylonitrile	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Allyl chloride	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Benzene	NELAP	1.0		8.6	µg/Kg-dry	1	02/25/2013 19:31	86039
Bromobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Bromochloromethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Bromodichloromethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Bromoform	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Bromomethane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Carbon disulfide	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Carbon tetrachloride	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Chlorobenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Chloroethane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Chloroform	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Chloromethane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
cis-1,2-Dichloroethene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
cis-1,3-Dichloropropene	NELAP	4.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Cyclohexanone		102		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Dibromochloromethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Dibromomethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Dichlorodifluoromethane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Ethyl ether	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Lab ID: 13020962-004

Client Sample ID: SSE-04

Matrix: SOLID

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Ethyl methacrylate	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Ethylbenzene	NELAP	5.1	J	3.1	µg/Kg-dry	1	02/25/2013 19:31	86039
Hexachlorobutadiene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Hexachloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Iodomethane	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Isopropylbenzene	NELAP	5.1	J	1.1	µg/Kg-dry	1	02/25/2013 19:31	86039
m,p-Xylenes	NELAP	5.1		5.6	µg/Kg-dry	1	02/25/2013 19:31	86039
Methacrylonitrile	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Methyl Methacrylate	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Methyl tert-butyl ether	NELAP	2.0		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Methylacrylate	NELAP	10.2		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Methylene chloride	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Naphthalene	NELAP	10.2	J	4.0	µg/Kg-dry	1	02/25/2013 19:31	86039
n-Butylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
n-Heptane		20.3		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
n-Hexane		20.3	J	5.5	µg/Kg-dry	1	02/25/2013 19:31	86039
Nitrobenzene	NELAP	102		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
n-Propylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
o-Xylene	NELAP	5.1	J	2.6	µg/Kg-dry	1	02/25/2013 19:31	86039
Pentachloroethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
p-Isopropyltoluene	NELAP	5.1		11.8	µg/Kg-dry	1	02/25/2013 19:31	86039
Propionitrile	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
sec-Butylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Styrene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
tert-Butylbenzene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Tetrachloroethene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Tetrahydrofuran	NELAP	1200	J	520	µg/Kg-dry	12.5	02/26/2013 20:03	86066
Toluene	NELAP	5.1		7.4	µg/Kg-dry	1	02/25/2013 19:31	86039
trans-1,2-Dichloroethene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
trans-1,3-Dichloropropene	NELAP	4.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Trichloroethene	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Trichlorofluoromethane	NELAP	5.1		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Vinyl acetate	NELAP	50.8		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Vinyl chloride	NELAP	2.0		ND	µg/Kg-dry	1	02/25/2013 19:31	86039
Surr: 1,2-Dichloroethane-d4		72.2-131		98.7	%REC	1	02/25/2013 19:31	86039
Surr: 4-Bromofluorobenzene		82.1-116		101.4	%REC	1	02/25/2013 19:31	86039
Surr: Dibromofluoromethane		77.7-120		105.7	%REC	1	02/25/2013 19:31	86039
Surr: Toluene-d8		86-116		102.4	%REC	1	02/25/2013 19:31	86039



Receiving Check List

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020962

Client Project: Bridgeton

Report Date: 27-Feb-13

Carrier: Robert Hill

Received By: TWM

Completed by:

On:

21-Feb-13

Emily E. Pohlman

Reviewed by:

On:

21-Feb-13

Shelly A. Hennessy

Shelly A. Hennessy

Pages to follow: Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 2.6

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pg. 1 of 1 Work Order # 130205962

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Lawatama
Address: 13 Executive Drive Ste 1
City / State / Zip: Tamiriew Heights WA
Contact: Bob Hill Phone: 61828 2002
E-Mail: bhill@lawatama-nz.co.nz

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Samples on: <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> No Ice	26 °C
Preserved in: <input type="checkbox"/> Lab <input type="checkbox"/> Field	FOR LAB USE ONLY
Lab Notes:	
Comments:	Same analysis as work order # 1300060 / Republic

Project Name / Number		Sample Collector's Name		INDICATE ANALYSIS REQUESTED	
Results Requested		Billing Instructions		MATRIX	
<input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)					
Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers	Water	Drinking Water
13020902	SSW-01	2/20/13:1310	UNPRES		
			NaOH		
			H ₂ SO ₄		
			HCL		
			MeOH		
			NaHSO ₄		
			Other		
				Soil	
				Sludge	
				Sp. Waste	
				TCN (g012)	
				Hg, Sb, As,	
				B, Cd, Cr, Cu,	
				Pb, Ni, Se, Ag,	
				11, Zn	
				8270	
				8260	

Relinquished By: Robert J. Smith

Date / Time: 2/20/13 4:47 pm

Received By: [Signature]

Date / Time: 2-20-13 1647

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAB YELLOW - SAMPLER'S COPY

February 26, 2013

Robert Hill II
AQUATERRA Environmental Solution, Inc.
13 Executive Drive, Suite 1
Fairview Heights, IL 62208
TEL: (618) 628-2001
FAX: (618) 628-2002



RE: Bridgeton

WorkOrder: 13020963

Dear Robert Hill II:

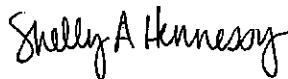
TEKLAB, INC received 2 samples on 2/20/2013 4:47:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Definitions

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCS D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Cooler Receipt Temp: 2.6 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jbriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2013	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		5/26/2013	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Lab ID: 13020963-001

Client Sample ID: SWE04

Matrix: LEACHATE

Collection Date: 02/20/2013 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	5		< 5	mg/L	1	02/22/2013 9:17	R174092
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		1.99	mg/L	1	02/21/2013 17:15	R174055
EPA 600 375.2 REV 2.0 1993 (TOTAL)								
Sulfate	NELAP	100		119	mg/L	10	02/22/2013 15:28	R174094
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		422	mg/L	1	02/22/2013 19:10	R174089
STANDARD METHOD 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		7.56		1	02/22/2013 9:40	R174056
STANDARD METHODS 2340 C								
Hardness, as (CaCO ₃)	NELAP	5		420	mg/L	1	02/21/2013 7:29	R174030
STANDARD METHODS 2540 D								
Total Suspended Solids	NELAP	24		788	mg/L	4	02/21/2013 16:50	R174034
STANDARD METHODS 2540 F								
Solids, Settleable	NELAP	0.1		1.4	ml/L	1	02/21/2013 9:30	R173982
STANDARD METHODS 3500-CR B								
Chromium, Hexavalent	NELAP	0.050		< 0.050	mg/L	10	02/21/2013 9:52	R174033
STANDARD METHODS 4500-CL E (TOTAL)								
Chloride	NELAP	50		167	mg/L	10	02/22/2013 15:33	R174093
STANDARD METHODS 5210 B								
Biochemical Oxygen Demand	NELAP	5		151	mg/L	1	02/21/2013 13:41	85960
TRIVALENT CHROMIUM								
Trivalent Chromium		0.010		0.032	mg/L	1	02/21/2013 9:42	R174033
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		0.00029	mg/L	1	02/25/2013 10:51	85989
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Aluminum	NELAP	0.0500		21.3	mg/L	1	02/21/2013 15:53	85950
Antimony	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:53	85950
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	02/21/2013 15:53	85950
Beryllium	NELAP	0.0010		0.0011	mg/L	1	02/21/2013 15:53	85950
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	02/21/2013 15:53	85950
Chromium	NELAP	0.0100		0.0321	mg/L	1	02/21/2013 15:53	85950
Cobalt	NELAP	0.0100		0.0229	mg/L	1	02/21/2013 15:53	85950
Copper	NELAP	0.0100		0.0408	mg/L	1	02/21/2013 15:53	85950
Iron	NELAP	0.0200		32.1	mg/L	1	02/21/2013 15:53	85950
Lead	NELAP	0.0400		< 0.0400	mg/L	1	02/21/2013 15:53	85950
Nickel	NELAP	0.0100		0.0573	mg/L	1	02/21/2013 15:53	85950
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:53	85950
Silver	NELAP	0.0100		< 0.0100	mg/L	1	02/21/2013 15:53	85950
Thallium	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:53	85950
Zinc	NELAP	0.0100		0.266	mg/L	1	02/21/2013 15:53	85950
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.008		ND	mg/L	1	02/25/2013 13:54	86002
1,2-Diphenylhydrazine		0.008		ND	mg/L	1	02/25/2013 13:54	86002
2,4,6-Trichlorophenol	NELAP	0.008		ND	mg/L	1	02/25/2013 13:54	86002
2,4-Dichlorophenol	NELAP	0.008		ND	mg/L	1	02/25/2013 13:54	86002



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Lab ID: 13020963-002

Client Sample ID: SWW01

Matrix: LEACHATE

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	5		< 5	mg/L	1	02/22/2013 9:18	R174092
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		2.49	mg/L	1	02/21/2013 17:18	R174055
EPA 600 375.2 REV 2.0 1993 (TOTAL)								
Sulfate	NELAP	100		162	mg/L	10	02/22/2013 15:36	R174094
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		433	mg/L	1	02/22/2013 19:10	R174089
STANDARD METHOD 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		7.50		1	02/22/2013 9:42	R174056
STANDARD METHODS 2340 C								
Hardness, as (CaCO ₃)	NELAP	5		530	mg/L	1	02/21/2013 7:29	R174030
STANDARD METHODS 2540 D								
Total Suspended Solids	NELAP	24		784	mg/L	4	02/21/2013 16:50	R174034
STANDARD METHODS 2540 F								
Solids, Settleable	NELAP	0.1		1.9	ml/L	1	02/21/2013 9:30	R173982
STANDARD METHODS 3500-CR B								
Chromium, Hexavalent	NELAP	0.050		< 0.050	mg/L	10	02/21/2013 10:05	R174033
STANDARD METHODS 4500-CL E (TOTAL)								
Chloride	NELAP	50		232	mg/L	10	02/22/2013 15:39	R174093
STANDARD METHODS 5210 B								
Biochemical Oxygen Demand	NELAP	5		159	mg/L	1	02/21/2013 13:44	85960
TRIVALENT CHROMIUM								
Trivalent Chromium		0.010		0.022	mg/L	1	02/21/2013 9:42	R174033
EPA 600 245.1 R3.0 (TOTAL)								
Mercury	NELAP	0.00020		0.00029	mg/L	1	02/25/2013 10:54	85989
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Aluminum	NELAP	0.0500		13.8	mg/L	1	02/21/2013 15:56	85950
Antimony	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:56	85950
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	02/21/2013 15:56	85950
Beryllium	NELAP	0.0010		< 0.0010	mg/L	1	02/21/2013 15:56	85950
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	02/21/2013 15:56	85950
Chromium	NELAP	0.0100		0.0220	mg/L	1	02/21/2013 15:56	85950
Cobalt	NELAP	0.0100		0.0174	mg/L	1	02/21/2013 15:56	85950
Copper	NELAP	0.0100		0.0232	mg/L	1	02/21/2013 15:56	85950
Iron	NELAP	0.0200		23.2	mg/L	1	02/21/2013 15:56	85950
Lead	NELAP	0.0400		< 0.0400	mg/L	1	02/21/2013 15:56	85950
Nickel	NELAP	0.0100		0.0454	mg/L	1	02/21/2013 15:56	85950
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:56	85950
Silver	NELAP	0.0100		< 0.0100	mg/L	1	02/21/2013 15:56	85950
Thallium	NELAP	0.0500		< 0.0500	mg/L	1	02/21/2013 15:56	85950
Zinc	NELAP	0.0100		0.203	mg/L	1	02/21/2013 15:56	85950
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
1,2-Diphenylhydrazine		0.008		ND	mg/L	1	02/25/2013 14:20	86002
2,4,6-Trichlorophenol	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2,4-Dichlorophenol	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Lab ID: 13020963-002

Client Sample ID: SWW01

Matrix: LEACHATE

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2,4-Dinitrophenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
2,4-Dinitrotoluene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2,6-Dinitrotoluene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2-Chloronaphthalene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2-Chlorophenol	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
2-Nitrophenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
3,3'-Dichlorobenzidine	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
4,6-Dinitro-2-methylphenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
4-Bromophenyl phenyl ether	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
4-Chloro-3-methylphenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
4-Chlorophenyl phenyl ether	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
4-Nitrophenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
Acenaphthene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Acenaphthylene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Anthracene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Azobenzene		0.008		ND	mg/L	1	02/25/2013 14:20	86002
Benzo(a)anthracene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Benzo(a)pyrene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Benzo(b)fluoranthene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Benzo(g,h,i)perylene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Benzo(k)fluoranthene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Bis(2-chloroethoxy)methane	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Bis(2-chloroethyl)ether	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Bis(2-chloroisopropyl)ether	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Bis(2-ethylhexyl)phthalate	NELAP	0.005		ND	mg/L	1	02/25/2013 14:20	86002
Butyl benzyl phthalate	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Chrysene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Dibenzo(a,h)anthracene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Diethyl phthalate	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Dimethyl phthalate	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Di-n-butyl phthalate	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Di-n-octyl phthalate	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Fluoranthene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Fluorene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Hexachlorobenzene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Hexachlorobutadiene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Hexachlorocyclopentadiene	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
Hexachloroethane	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Indeno(1,2,3-cd)pyrene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Isophorone	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Naphthalene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Nitrobenzene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
N-Nitrosodimethylamine	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002
N-Nitroso-di-n-propylamine	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
N-Nitrosodiphenylamine	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Pentachlorophenol	NELAP	0.016		ND	mg/L	1	02/25/2013 14:20	86002



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Lab ID: 13020963-002

Client Sample ID: SWW01

Matrix: LEACHATE

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 625 (MODIFIED), SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Phenanthrene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Phenol	NELAP	0.004		0.034	mg/L	1	02/25/2013 14:20	86002
Pyrene	NELAP	0.008		ND	mg/L	1	02/25/2013 14:20	86002
Surr: 2,4,6-Tribromophenol		26.4-130		64.8	%REC	1	02/25/2013 14:20	86002
Surr: 2-Fluorobiphenyl		38.3-115		58.0	%REC	1	02/25/2013 14:20	86002
Surr: 2-Fluorophenol		16.5-65		32.8	%REC	1	02/25/2013 14:20	86002
Surr: Nitrobenzene-d5		47.6-107		72.4	%REC	1	02/25/2013 14:20	86002
Surr: Phenol-d5		9.94-41.7		16.1	%REC	1	02/25/2013 14:20	86002
Surr: p-Terphenyl-d14		1-136		24.1	%REC	1	02/25/2013 14:20	86002
EPA 600 624 (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	02/22/2013 15:05	86009
Acrolein	NELAP	100		ND	µg/L	1	02/22/2013 15:05	86009
Acrylonitrile	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Benzene	NELAP	2.0		3.4	µg/L	1	02/22/2013 15:05	86009
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Bromoform	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Bromomethane	NELAP	10		ND	µg/L	1	02/22/2013 15:05	86009
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Chlorobenzene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Chloroethane	NELAP	10		ND	µg/L	1	02/22/2013 15:05	86009
Chloroform	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Chloromethane	NELAP	10		ND	µg/L	1	02/22/2013 15:05	86009
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Ethylbenzene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
m,p-Xylenes		5.0		ND	µg/L	1	02/22/2013 15:05	86009
Methylene chloride	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
o-Xylene		5.0		ND	µg/L	1	02/22/2013 15:05	86009
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Toluene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Trichloroethene	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Vinyl chloride	NELAP	2.0		ND	µg/L	1	02/22/2013 15:05	86009
Xylenes, Total	NELAP	5.0		ND	µg/L	1	02/22/2013 15:05	86009
Surr: 1,2-Dichloroethane-d4		74.7-129		109.8	%REC	1	02/22/2013 15:05	86009



Laboratory Results

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Lab ID: 13020963-002

Client Sample ID: SWW01

Matrix: LEACHATE

Collection Date: 02/20/2013 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 624 (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Surr: 4-Bromofluorobenzene		86-119		100.2	%REC	1	02/22/2013 15:05	86009
Surr: Dibromofluoromethane		81.7-123		100.6	%REC	1	02/22/2013 15:05	86009
Surr: Toluene-d8		84.3-114		99.9	%REC	1	02/22/2013 15:05	86009



Receiving Check List

<http://www.teklabinc.com/>

Client: AQUATERRA Environmental Solution, Inc.

Work Order: 13020963

Client Project: Bridgeton

Report Date: 26-Feb-13

Carrier: Robert Hill

Received By: TWM

Completed by:

On:

21-Feb-13

Emily E. Pohlman

Reviewed by:

On:

21-Feb-13

Shelly A. Hennessy

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.6
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</div>				
Water - at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

pg. ___ of ___ Work Order # 13020963

TEKLAB, INC.
5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Dematras
Address: 1399 Oakview Dr. Suite 1
City / State / Zip: Farmington Heights IL
Contact: Rob Hill Phone: 815-628-2201
E-Mail: hill@ogardner-cw.com Fax: 615-628-2202

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☐ No
- Are these samples known to be hazardous? ☐ Yes ☐ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Samples on: <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> No Ice	26 °C
Preserved in: <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Field	FOR LAB USE ONLY
Lab Notes:	FOR 2/24/13
Comments:	Same Sample Analysis with order # B020019/Kensite

[illegible]

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE – LAB YELLOW – SAMPLER'S COPY