



Air Toxics

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Project Manager Michael Parris

Collected by: (Print and Sign) Michael Parris

Company WQ DWR Email michael.parris@airtoxics.com

Address PO Box 176 City JD State WA Zip 98102

Phone (509) 526-3918 Fax

Project Info:
Project # 3ESP140724
Project Name Bridgeton LF
Turn Around Time: [X] Normal [] Rush
Lab Use Only: Pressurized by: N2 He
Date:
Pressurization Gas:

Table with columns: Lab I.D., Field Sample I.D. (Location), Can #, Date of Collection, Time of Collection, Analyses Requested, Canister Pressure/Vacuum (Initial, Final, Receipt, Final (gs)). Rows include samples 01A, 02A, 03A, 04A.

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time
Notes: Shipped via WPS Tracking # 1267278803A3679069
Shipper Name UPS Air Bill # Temp (C) Condition Custody Seals Intact? Work Order # 1404201

4/22/2014

Mr. Dennis Schroeder
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton LF

Project #:

Workorder #: 1404201

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 4/11/2014 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker
Project Manager

WORK ORDER #: 1404201

Work Order Summary

CLIENT:	Mr. Dennis Schroeder Missouri Dept. of Natural Resources 2710 West Main Jefferson City, MO 65109	BILL TO:	Accounts Payable Missouri Dept. of Natural Resources P.O Box 176 Jefferson City, MO 65102
PHONE:	573-526-4428	P.O. #	3ESP140724
FAX:	573-526-3350	PROJECT #	Bridgeton LF
DATE RECEIVED:	04/11/2014	CONTACT:	Brian Whittaker
DATE COMPLETED:	04/21/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1410145)	Modified TO-15	5.7 "Hg	5.2 psi
02A	D2 (1410146)	Modified TO-15	6.1 "Hg	5.1 psi
03A	U1 (1410147)	Modified TO-15	6.5 "Hg	5.1 psi
04A	U2 (1410148)	Modified TO-15	6.1 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 04/21/14

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
 Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
Missouri Dept. of Natural Resources
Workorder# 1404201

Four 6 Liter Summa Canister (100% Certified) samples were received on April 11, 2014. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Due to the linear calibration range of the instrument, the reporting limit for alpha-Chlorotoluene was raised from 0.1 ppbv to 0.5 ppbv.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: D1 (1410145)

Lab ID#: 1404201-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.82	2.4
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	3.4	1.6	6.4
Acetone	0.84	2.0	2.0	4.8

Client Sample ID: D2 (1410146)

Lab ID#: 1404201-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.44	0.84	2.2
Freon 11	0.17	0.19	0.95	1.1
Ethanol	0.84	3.2	1.6	6.0
Acetone	0.84	2.4	2.0	5.8

Client Sample ID: U1 (1410147)

Lab ID#: 1404201-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.42	0.85	2.1
Freon 11	0.17	0.21	0.97	1.2
Ethanol	0.86	4.2	1.6	7.9
Acetone	0.86	2.6	2.0	6.3

Client Sample ID: U2 (1410148)

Lab ID#: 1404201-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.38	0.83	1.9
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	3.7	1.6	6.9
Acetone	0.84	2.2	2.0	5.3
Benzene	0.17	0.18	0.54	0.56



Air Toxics

Client Sample ID: D1 (1410145)

Lab ID#: 1404201-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041518	Date of Collection:	4/6/14 3:41:00 PM
Dil. Factor:	1.67	Date of Analysis:	4/15/14 09:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.82	2.4
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.2	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	3.4	1.6	6.4
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Acetone	0.84	2.0	2.0	4.8
2-Propanol	0.84	Not Detected	2.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.91	Not Detected
Cyclohexane	0.17	Not Detected	0.57	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	Not Detected	0.53	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.77	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.68	Not Detected
Toluene	0.17	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.91	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected



Client Sample ID: D1 (1410145)

Lab ID#: 1404201-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041518	Date of Collection:	4/6/14 3:41:00 PM
Dil. Factor:	1.67	Date of Analysis:	4/15/14 09:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.72	Not Detected
m,p-Xylene	0.17	Not Detected	0.72	Not Detected
o-Xylene	0.17	Not Detected	0.72	Not Detected
Styrene	0.17	Not Detected	0.71	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.1	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected UJ	6.2	Not Detected UJ
Hexachlorobutadiene	0.84	Not Detected UJ	8.9	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: D2 (1410146)

Lab ID#: 1404201-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041519	Date of Collection:	4/6/14 3:48:00 PM
Dil. Factor:	1.69	Date of Analysis:	4/15/14 09:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.44	0.84	2.2
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.19	0.95	1.1
Ethanol	0.84	3.2	1.6	6.0
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	2.4	2.0	5.8
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	Not Detected	0.54	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	Not Detected	0.91	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.61	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	Not Detected	0.64	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.5	Not Detected

Client Sample ID: D2 (1410146)

Lab ID#: 1404201-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041519	Date of Collection:	4/6/14 3:48:00 PM
Dil. Factor:	1.69	Date of Analysis:	4/15/14 09:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.78	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.83	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.83	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.83	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.83	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.83	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected UJ	6.3	Not Detected UJ
Hexachlorobutadiene	0.84	Not Detected UJ	9.0	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: U1 (1410147)

Lab ID#: 1404201-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041608	Date of Collection:	4/6/14 4:12:00 PM
Dil. Factor:	1.72	Date of Analysis:	4/16/14 01:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.42	0.85	2.1
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	Not Detected	1.8	Not Detected
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.17	0.21	0.97	1.2
Ethanol	0.86	4.2	1.6	7.9
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	2.6	2.0	6.3
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.61	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.84	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	Not Detected	0.65	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected



Client Sample ID: U1 (1410147)

Lab ID#: 1404201-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041608	Date of Collection:	4/6/14 4:12:00 PM
Dil. Factor:	1.72	Date of Analysis:	4/16/14 01:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.75	Not Detected
m,p-Xylene	0.17	Not Detected	0.75	Not Detected
o-Xylene	0.17	Not Detected	0.75	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected UJ	6.4	Not Detected UJ
Hexachlorobutadiene	0.86	Not Detected	9.2	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: U2 (1410148)

Lab ID#: 1404201-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041521	Date of Collection:	4/6/14 4:17:00 PM
Dil. Factor:	1.68	Date of Analysis:	4/15/14 11:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.38	0.83	1.9
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	3.7	1.6	6.9
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	2.2	2.0	5.3
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	0.18	0.54	0.56
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected

Client Sample ID: U2 (1410148)

Lab ID#: 1404201-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041521	Date of Collection: 4/6/14 4:17:00 PM
Dil. Factor:	1.68	Date of Analysis: 4/15/14 11:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected UJ	6.2	Not Detected UJ
Hexachlorobutadiene	0.84	Not Detected UJ	9.0	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1404201-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041507	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/15/14 12:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1404201-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041507	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 12:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected UJ	3.7	Not Detected UJ
Hexachlorobutadiene	0.50	Not Detected UJ	5.3	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1404201-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041606	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/16/14 12:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1404201-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 12:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected UJ	3.7	Not Detected UJ
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1404201-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 08:11 AM

Compound	%Recovery
Freon 12	100
Freon 114	106
Chloromethane	110
Vinyl Chloride	104
1,3-Butadiene	102
Bromomethane	106
Chloroethane	97
Freon 11	97
Ethanol	127
Freon 113	95
1,1-Dichloroethene	101
Acetone	100
2-Propanol	104
Carbon Disulfide	99
3-Chloropropene	102
Methylene Chloride	94
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	98
Hexane	103
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	93
Tetrahydrofuran	101
Chloroform	94
1,1,1-Trichloroethane	98
Cyclohexane	100
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	102
Benzene	101
1,2-Dichloroethane	102
Heptane	106
Trichloroethene	98
1,2-Dichloropropane	98
1,4-Dioxane	108
Bromodichloromethane	104
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	115
Toluene	102
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	101
Tetrachloroethene	103
2-Hexanone	104

Client Sample ID: CCV

Lab ID#: 1404201-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 08:11 AM

Compound	%Recovery
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	103
Chlorobenzene	101
Ethyl Benzene	106
m,p-Xylene	111
o-Xylene	108
Styrene	106
Bromoform	105
Cumene	106
1,1,2,2-Tetrachloroethane	103
Propylbenzene	101
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	63 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1404201-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 08:45 AM

Compound	%Recovery
Freon 12	98
Freon 114	102
Chloromethane	93
Vinyl Chloride	100
1,3-Butadiene	100
Bromomethane	102
Chloroethane	96
Freon 11	96
Ethanol	114
Freon 113	97
1,1-Dichloroethene	98
Acetone	97
2-Propanol	104
Carbon Disulfide	98
3-Chloropropene	104
Methylene Chloride	94
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	99
Hexane	107
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	94
Tetrahydrofuran	103
Chloroform	96
1,1,1-Trichloroethane	102
Cyclohexane	105
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	106
Benzene	101
1,2-Dichloroethane	104
Heptane	106
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	110
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	120
Toluene	107
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	103
Tetrachloroethene	102
2-Hexanone	110



Client Sample ID: CCV

Lab ID#: 1404201-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 08:45 AM

Compound	%Recovery
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	111
m,p-Xylene	113
o-Xylene	112
Styrene	111
Bromoform	107
Cumene	110
1,1,2,2-Tetrachloroethane	106
Propylbenzene	105
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	69 Q
Hexachlorobutadiene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1404201-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 08:55 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	102	70-130
Chloromethane	90	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	99	70-130
Bromomethane	104	70-130
Chloroethane	97	70-130
Freon 11	94	70-130
Ethanol	108	70-130
Freon 113	110	70-130
1,1-Dichloroethene	120	70-130
Acetone	100	70-130
2-Propanol	102	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	108	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	83	70-130
Hexane	106	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	100	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	103	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	99	70-130
1,2-Dichloroethane	99	70-130
Heptane	105	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	114	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	114	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	99	70-130
2-Hexanone	106	70-130

Client Sample ID: LCS

Lab ID#: 1404201-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 08:55 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	103	70-130
o-Xylene	100	70-130
Styrene	97	70-130
Bromoform	109	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	91	70-130
1,2,4-Trimethylbenzene	88	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	88	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	86	70-130
1,2,4-Trichlorobenzene	69 Q	70-130
Hexachlorobutadiene	65 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1404201-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 09:36 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	99	70-130
Chloromethane	88	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	97	70-130
Bromomethane	108	70-130
Chloroethane	98	70-130
Freon 11	94	70-130
Ethanol	108	70-130
Freon 113	110	70-130
1,1-Dichloroethene	121	70-130
Acetone	103	70-130
2-Propanol	102	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	104	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	108	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	110	70-130
Tetrahydrofuran	102	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	103	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	99	70-130
1,2-Dichloroethane	98	70-130
Heptane	106	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	111	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	115	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	105	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	100	70-130
2-Hexanone	111	70-130

Client Sample ID: LCSD

Lab ID#: 1404201-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/15/14 09:36 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	113	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	111	70-130
o-Xylene	106	70-130
Styrene	104	70-130
Bromoform	108	70-130
Cumene	107	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	98	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	95	70-130
1,4-Dichlorobenzene	93	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	70	70-130
Hexachlorobutadiene	67 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1404201-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 09:26 AM

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	98	70-130
Chloromethane	93	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	97	70-130
Bromomethane	105	70-130
Chloroethane	97	70-130
Freon 11	96	70-130
Ethanol	117	70-130
Freon 113	110	70-130
1,1-Dichloroethene	112	70-130
Acetone	98	70-130
2-Propanol	102	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	110	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	111	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	99	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	104	70-130
1,2-Dichloroethane	102	70-130
Heptane	110	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	107	70-130
cis-1,3-Dichloropropene	112	70-130
4-Methyl-2-pentanone	116	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	97	70-130
2-Hexanone	108	70-130

Client Sample ID: LCS

Lab ID#: 1404201-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 09:26 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	110	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	109	70-130
o-Xylene	105	70-130
Styrene	108	70-130
Bromoform	106	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	107	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	84	70-130
Hexachlorobutadiene	80	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1404201-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 10:08 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	98	70-130
Chloromethane	88	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	96	70-130
Bromomethane	107	70-130
Chloroethane	96	70-130
Freon 11	94	70-130
Ethanol	96	70-130
Freon 113	109	70-130
1,1-Dichloroethene	119	70-130
Acetone	97	70-130
2-Propanol	102	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	104	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	107	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	102	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	105	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	104	70-130
1,2-Dichloroethane	102	70-130
Heptane	111	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	116	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	116	70-130
4-Methyl-2-pentanone	121	70-130
Toluene	106	70-130
trans-1,3-Dichloropropene	99	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	99	70-130
2-Hexanone	106	70-130



Client Sample ID: LCSD

Lab ID#: 1404201-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c041604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/14 10:08 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	111	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	108	70-130
o-Xylene	106	70-130
Styrene	104	70-130
Bromoform	106	70-130
Cumene	105	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	92	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	93	70-130
1,2,4-Trichlorobenzene	72	70-130
Hexachlorobutadiene	68 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130