

3/31/2014

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

Jefferson City MO 65109

Project Name: Bridgeton LF

Project #:

Workorder #: 1403352

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 3/19/2014 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 #: 1403352

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. #	3ESP1301039
FAX:	573-526-3350	PROJECT #	Bridgeton LF
DATE RECEIVED:	03/19/2014	CONTACT:	Brian Whittaker
DATE COMPLETED:	03/28/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	U1 (149609)	Modified TO-15	1.4 "Hg	5.2 psi
02A	D1 (149611)	Modified TO-15	5.1 "Hg	5.2 psi
03A	D2 (149612)	Modified TO-15	4.7 "Hg	5.3 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 03/31/14

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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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15
Missouri Dept. of Natural Resources
Workorder# 1403352

Three 6 Liter Summa Canister (100% Certified) samples were received on March 19, 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	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	$\leq 30\%$ 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

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for 1,2,4-Trimethylbenzene and Hexachlorobutadiene on 03/25/14.

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. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

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: U1 (149609)

Lab ID#: 1403352-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.57	0.70	2.8
Freon 11	0.14	0.22	0.80	1.3
Ethanol	0.71	2.1	1.3	4.0
Acetone	0.71	1.6	1.7	3.9
Toluene	0.14	0.16	0.54	0.62

Client Sample ID: D1 (149611)

Lab ID#: 1403352-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.67	0.81	3.3
Freon 11	0.16	0.24	0.92	1.3
Ethanol	0.82	3.5	1.5	6.6
Acetone	0.82	1.7	1.9	4.1
Benzene	0.16	0.19	0.52	0.62
Toluene	0.16	0.18	0.61	0.69

Client Sample ID: D2 (149612)

Lab ID#: 1403352-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.64	0.80	3.2
Freon 11	0.16	0.27	0.90	1.5
Ethanol	0.80	2.7	1.5	5.0
Acetone	0.80	1.9	1.9	4.5
Toluene	0.16	0.16	0.61	0.62



Air Toxics

Client Sample ID: U1 (149609)

Lab ID#: 1403352-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032421	Date of Collection:	3/13/14 4:45:00 PM
Dil. Factor:	1.42	Date of Analysis:	3/25/14 07:39 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.57	0.70	2.8
Freon 114	0.14	Not Detected	0.99	Not Detected
Chloromethane	0.71	Not Detected	1.5	Not Detected
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
1,3-Butadiene	0.14	Not Detected	0.31	Not Detected
Bromomethane	0.71	Not Detected	2.8	Not Detected
Chloroethane	0.71	Not Detected	1.9	Not Detected
Freon 11	0.14	0.22	0.80	1.3
Ethanol	0.71	2.1	1.3	4.0
Freon 113	0.14	Not Detected	1.1	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Acetone	0.71	1.6	1.7	3.9
2-Propanol	0.71	Not Detected	1.7	Not Detected
Carbon Disulfide	0.71	Not Detected	2.2	Not Detected
3-Chloropropene	0.71	Not Detected	2.2	Not Detected
Methylene Chloride	0.28	Not Detected	0.99	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.51	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Hexane	0.14	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.14	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.71	Not Detected	2.1	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Tetrahydrofuran	0.71	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.69	Not Detected
1,1,1-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Cyclohexane	0.14	Not Detected	0.49	Not Detected
Carbon Tetrachloride	0.14	Not Detected UJ	0.89	Not Detected UJ
2,2,4-Trimethylpentane	0.71	Not Detected	3.3	Not Detected
Benzene	0.14	Not Detected	0.45	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Heptane	0.14	Not Detected	0.58	Not Detected
Trichloroethene	0.14	Not Detected	0.76	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.14	Not Detected	0.51	Not Detected
Bromodichloromethane	0.14	Not Detected	0.95	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.58	Not Detected
Toluene	0.14	0.16	0.54	0.62
trans-1,3-Dichloropropene	0.14	Not Detected	0.64	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Tetrachloroethene	0.14	Not Detected	0.96	Not Detected
2-Hexanone	0.71	Not Detected	2.9	Not Detected

Client Sample ID: U1 (149609)

Lab ID#: 1403352-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032421	Date of Collection:	3/13/14 4:45:00 PM
Dil. Factor:	1.42	Date of Analysis:	3/25/14 07:39 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.65	Not Detected
Ethyl Benzene	0.14	Not Detected	0.62	Not Detected
m,p-Xylene	0.14	Not Detected	0.62	Not Detected
o-Xylene	0.14	Not Detected	0.62	Not Detected
Styrene	0.14	Not Detected	0.60	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.70	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.97	Not Detected
Propylbenzene	0.14	Not Detected	0.70	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.70	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.70	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.70	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.85	Not Detected
1,2,4-Trichlorobenzene	0.71	Not Detected	5.3	Not Detected
Hexachlorobutadiene	0.71	Not Detected	7.6	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	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: D1 (149611)

Lab ID#: 1403352-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032511	Date of Collection:	3/13/14 3:40:00 PM
Dil. Factor:	1.63	Date of Analysis:	3/25/14 05:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.67	0.81	3.3
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.24	0.92	1.3
Ethanol	0.82	3.5	1.5	6.6
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	1.7	1.9	4.1
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.5	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	0.19	0.52	0.62
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.75	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
Toluene	0.16	0.18	0.61	0.69
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.82	Not Detected	3.3	Not Detected

Client Sample ID: D1 (149611)

Lab ID#: 1403352-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032511	Date of Collection: 3/13/14 3:40:00 PM
Dil. Factor:	1.63	Date of Analysis: 3/25/14 05:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.75	Not Detected
Ethyl Benzene	0.16	Not Detected	0.71	Not Detected
m,p-Xylene	0.16	Not Detected	0.71	Not Detected
o-Xylene	0.16	Not Detected	0.71	Not Detected
Styrene	0.16	Not Detected	0.69	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.80	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.80	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.80	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.80	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.80	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.98	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.98	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.84	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.98	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: D2 (149612)

Lab ID#: 1403352-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032512	Date of Collection:	3/13/14 4:16:00 PM
Dil. Factor:	1.61	Date of Analysis:	3/25/14 06:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.64	0.80	3.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.80	Not Detected	1.7	Not Detected
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.16	0.27	0.90	1.5
Ethanol	0.80	2.7	1.5	5.0
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Acetone	0.80	1.9	1.9	4.5
2-Propanol	0.80	Not Detected	2.0	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Hexane	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.65	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Cyclohexane	0.16	Not Detected	0.55	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Benzene	0.16	Not Detected	0.51	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
Heptane	0.16	Not Detected	0.66	Not Detected
Trichloroethene	0.16	Not Detected	0.86	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
Toluene	0.16	0.16	0.61	0.62
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected

Client Sample ID: D2 (149612)

Lab ID#: 1403352-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032512	Date of Collection: 3/13/14 4:16:00 PM
Dil. Factor:	1.61	Date of Analysis: 3/25/14 06:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Ethyl Benzene	0.16	Not Detected	0.70	Not Detected
m,p-Xylene	0.16	Not Detected	0.70	Not Detected
o-Xylene	0.16	Not Detected	0.70	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1403352-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/24/14 12:14 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 UJ	0.63	Not Detected UJ
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#: 1403352-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/24/14 12:14 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	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
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	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1403352-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032507	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/25/14 02:38 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#: 1403352-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032507	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 02:38 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	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1403352-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/14 09:18 AM

Compound	%Recovery
Freon 12	116
Freon 114	110
Chloromethane	81
Vinyl Chloride	99
1,3-Butadiene	92
Bromomethane	113
Chloroethane	99
Freon 11	104
Ethanol	107
Freon 113	106
1,1-Dichloroethene	102
Acetone	89
2-Propanol	101
Carbon Disulfide	96
3-Chloropropene	98
Methylene Chloride	96
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	100
Hexane	100
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	101
Tetrahydrofuran	91
Chloroform	107
1,1,1-Trichloroethane	112
Cyclohexane	109
Carbon Tetrachloride	69 Q
2,2,4-Trimethylpentane	95
Benzene	93
1,2-Dichloroethane	103
Heptane	99
Trichloroethene	104
1,2-Dichloropropane	95
1,4-Dioxane	109
Bromodichloromethane	101
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	103
Toluene	98
trans-1,3-Dichloropropene	117
1,1,2-Trichloroethane	98
Tetrachloroethene	110
2-Hexanone	108



Air Toxics

Client Sample ID: CCV

Lab ID#: 1403352-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/14 09:18 AM

Compound	%Recovery
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	111
Chlorobenzene	99
Ethyl Benzene	111
m,p-Xylene	112
o-Xylene	113
Styrene	113
Bromoform	116
Cumene	115
1,1,2,2-Tetrachloroethane	100
Propylbenzene	107
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	85

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1403352-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 10:45 AM

Compound	%Recovery
Freon 12	118
Freon 114	112
Chloromethane	84
Vinyl Chloride	102
1,3-Butadiene	94
Bromomethane	111
Chloroethane	98
Freon 11	109
Ethanol	91
Freon 113	106
1,1-Dichloroethene	101
Acetone	98
2-Propanol	104
Carbon Disulfide	100
3-Chloropropene	107
Methylene Chloride	98
Methyl tert-butyl ether	120
trans-1,2-Dichloroethene	99
Hexane	102
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	102
Tetrahydrofuran	95
Chloroform	110
1,1,1-Trichloroethane	116
Cyclohexane	111
Carbon Tetrachloride	70
2,2,4-Trimethylpentane	96
Benzene	99
1,2-Dichloroethane	112
Heptane	106
Trichloroethene	115
1,2-Dichloropropane	99
1,4-Dioxane	116
Bromodichloromethane	110
cis-1,3-Dichloropropene	120
4-Methyl-2-pentanone	112
Toluene	104
trans-1,3-Dichloropropene	123
1,1,2-Trichloroethane	104
Tetrachloroethene	119
2-Hexanone	114



Air Toxics

Client Sample ID: CCV

Lab ID#: 1403352-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 10:45 AM

Compound	%Recovery
Dibromochloromethane	125
1,2-Dibromoethane (EDB)	117
Chlorobenzene	108
Ethyl Benzene	119
m,p-Xylene	121
o-Xylene	119
Styrene	122
Bromoform	125
Cumene	125
1,1,2,2-Tetrachloroethane	107
Propylbenzene	120
4-Ethyltoluene	123
1,3,5-Trimethylbenzene	123
1,2,4-Trimethylbenzene	121
1,3-Dichlorobenzene	122
1,4-Dichlorobenzene	123
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	112	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1403352-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/14 10:01 AM

Compound	%Recovery	Method Limits
Freon 12	116	70-130
Freon 114	110	70-130
Chloromethane	92	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	92	70-130
Bromomethane	116	70-130
Chloroethane	99	70-130
Freon 11	111	70-130
Ethanol	100	70-130
Freon 113	128	70-130
1,1-Dichloroethene	117	70-130
Acetone	95	70-130
2-Propanol	105	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	112	70-130
Methylene Chloride	112	70-130
Methyl tert-butyl ether	120	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	107	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	120	70-130
Tetrahydrofuran	94	70-130
Chloroform	111	70-130
1,1,1-Trichloroethane	114	70-130
Cyclohexane	114	70-130
Carbon Tetrachloride	64 Q	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	95	70-130
1,2-Dichloroethane	106	70-130
Heptane	102	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	115	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	120	70-130
4-Methyl-2-pentanone	111	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	113	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	111	70-130
2-Hexanone	112	70-130

Client Sample ID: LCS

Lab ID#: 1403352-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/14 10:01 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	117	70-130
1,2-Dibromoethane (EDB)	108	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	111	70-130
o-Xylene	109	70-130
Styrene	114	70-130
Bromoform	115	70-130
Cumene	117	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	112	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	107	70-130
1,3-Dichlorobenzene	111	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	126	70-130
1,2-Dichlorobenzene	109	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	84	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1403352-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032404	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/24/14 10:38 AM

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	105	70-130
Chloromethane	76	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	90	70-130
Bromomethane	121	70-130
Chloroethane	104	70-130
Freon 11	108	70-130
Ethanol	96	70-130
Freon 113	127	70-130
1,1-Dichloroethene	117	70-130
Acetone	97	70-130
2-Propanol	104	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	111	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	121	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	108	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	121	70-130
Tetrahydrofuran	93	70-130
Chloroform	110	70-130
1,1,1-Trichloroethane	115	70-130
Cyclohexane	119	70-130
Carbon Tetrachloride	62 Q	70-130
2,2,4-Trimethylpentane	105	70-130
Benzene	96	70-130
1,2-Dichloroethane	102	70-130
Heptane	99	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	116	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	120	70-130
4-Methyl-2-pentanone	111	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	110	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	108	70-130
2-Hexanone	116	70-130

Client Sample ID: LCSD

Lab ID#: 1403352-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/24/14 10:38 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	116	70-130
1,2-Dibromoethane (EDB)	109	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	115	70-130
o-Xylene	112	70-130
Styrene	117	70-130
Bromoform	112	70-130
Cumene	120	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Propylbenzene	115	70-130
4-Ethyltoluene	118	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	115	70-130
1,4-Dichlorobenzene	113	70-130
alpha-Chlorotoluene	137 Q	70-130
1,2-Dichlorobenzene	113	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	86	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1403352-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032503	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/25/14 11:33 AM

Compound	%Recovery	Method Limits
Freon 12	115	70-130
Freon 114	110	70-130
Chloromethane	82	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	92	70-130
Bromomethane	112	70-130
Chloroethane	99	70-130
Freon 11	108	70-130
Ethanol	88	70-130
Freon 113	122	70-130
1,1-Dichloroethene	115	70-130
Acetone	92	70-130
2-Propanol	105	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	111	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	118	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	103	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	118	70-130
Tetrahydrofuran	96	70-130
Chloroform	111	70-130
1,1,1-Trichloroethane	114	70-130
Cyclohexane	118	70-130
Carbon Tetrachloride	60 Q	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	101	70-130
1,2-Dichloroethane	115	70-130
Heptane	107	70-130
Trichloroethene	119	70-130
1,2-Dichloropropane	102	70-130
1,4-Dioxane	126	70-130
Bromodichloromethane	117	70-130
cis-1,3-Dichloropropene	130	70-130
4-Methyl-2-pentanone	122	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	117	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	118	70-130
2-Hexanone	121	70-130

Client Sample ID: LCS

Lab ID#: 1403352-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 11:33 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	122	70-130
1,2-Dibromoethane (EDB)	115	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	113	70-130
m,p-Xylene	112	70-130
o-Xylene	116	70-130
Styrene	121	70-130
Bromoform	123	70-130
Cumene	125	70-130
1,1,2,2-Tetrachloroethane	104	70-130
Propylbenzene	122	70-130
4-Ethyltoluene	123	70-130
1,3,5-Trimethylbenzene	123	70-130
1,2,4-Trimethylbenzene	117	70-130
1,3-Dichlorobenzene	122	70-130
1,4-Dichlorobenzene	118	70-130
alpha-Chlorotoluene	142 Q	70-130
1,2-Dichlorobenzene	121	70-130
1,2,4-Trichlorobenzene	130	70-130
Hexachlorobutadiene	120	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1403352-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 12:11 PM

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Freon 114	105	70-130
Chloromethane	78	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	90	70-130
Bromomethane	115	70-130
Chloroethane	101	70-130
Freon 11	108	70-130
Ethanol	103	70-130
Freon 113	125	70-130
1,1-Dichloroethene	118	70-130
Acetone	94	70-130
2-Propanol	105	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	120	70-130
Methylene Chloride	112	70-130
Methyl tert-butyl ether	121	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	105	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	107	70-130
cis-1,2-Dichloroethene	120	70-130
Tetrahydrofuran	97	70-130
Chloroform	114	70-130
1,1,1-Trichloroethane	116	70-130
Cyclohexane	114	70-130
Carbon Tetrachloride	61 Q	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	98	70-130
1,2-Dichloroethane	108	70-130
Heptane	104	70-130
Trichloroethene	114	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	119	70-130
Bromodichloromethane	111	70-130
cis-1,3-Dichloropropene	124	70-130
4-Methyl-2-pentanone	117	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	113	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	115	70-130
2-Hexanone	117	70-130

Client Sample ID: LCSD

Lab ID#: 1403352-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c032504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/25/14 12:11 PM

Compound	%Recovery	Method Limits
Dibromochloromethane	121	70-130
1,2-Dibromoethane (EDB)	117	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	118	70-130
o-Xylene	110	70-130
Styrene	119	70-130
Bromoform	118	70-130
Cumene	120	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	116	70-130
4-Ethyltoluene	117	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	114	70-130
1,4-Dichlorobenzene	112	70-130
alpha-Chlorotoluene	133 Q	70-130
1,2-Dichlorobenzene	113	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	87	70-130

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