



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

**180 BLUE LAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020**

Page 1 of 1

Project Manager Michael Paris
 Collected by: (Print and Sign) Cedric Curizon
 Company MD DNR Email michael.paris@dnr.md.gov
 Address PO Box 176 City Baltimore State MD Zip 21202
 Phone _____ Fax _____

Project Info:
 P.O. # 28340007
 Project # _____
 Project Name Bridgeton LF

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
	D1 (1411017)	34314	6/27/14	1051-1456	TO-15	-30	-9.5	
	D2 (1411018)	22508	6/27/14	1059-1504	TO-15	-30	-9.5	
	D1 (1411019)	95680	6/27/14	1112-1518	TO-15	-30	-9	

Relinquished by: (signature) [Signature] Date/Time 6/27/14 1552
Received by: (signature) [Signature] Date/Time 6/27/14 1552
Relinquished by: (signature) [Signature] Date/Time 6/27/14 1513
Received by: (signature) [Signature] Date/Time 6/27/14 1513

Notes: Shipped via UPS
Track ing #: 1Z6127R80343079716

Shipper Name _____ Air Bill # _____ Temp (°C) _____ Condition _____ Custody Seals Intact? Yes No None Work Order # _____

Lab Use Only

7/22/2014

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

Jefferson City MO 65109

Project Name: Bridgeton LF

Project #:

Workorder #: 1407109

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 7/8/2014 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 #: 1407109

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. #	3ESP400007
FAX:	573-526-3350	PROJECT #	Bridgeton LF
DATE RECEIVED:	07/08/2014	CONTACT:	Brian Whittaker
DATE COMPLETED:	07/22/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1411017)	Modified TO-15	9.8 "Hg	4.9 psi
02A	D2 (1411018)	Modified TO-15	9.2 "Hg	5.3 psi
03A	U1 (1411019)	Modified TO-15	9 "Hg	4.8 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: 07/22/14

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

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

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# 1407109

Three 6 Liter Summa Canister (100% Certified) samples were received on July 08, 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.

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 (1411017)

Lab ID#: 1407109-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.46	0.98	2.3
Ethanol	0.99	2.6	1.9	5.0
Acetone	0.99	7.9	2.4	19
2-Butanone (Methyl Ethyl Ketone)	0.99	0.99	2.9	2.9

Client Sample ID: D2 (1411018)

Lab ID#: 1407109-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.42	0.97	2.1
Freon 11	0.20	0.21	1.1	1.2
Ethanol	0.98	2.7	1.8	5.1
Acetone	0.98	4.9	2.3	12
Methylene Chloride	0.39	0.51	1.4	1.8
Toluene	0.20	0.26	0.74	1.0

Client Sample ID: U1 (1411019)

Lab ID#: 1407109-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.43	0.93	2.1
Freon 11	0.19	0.20	1.1	1.1
Ethanol	0.94	1.9	1.8	3.6
Acetone	0.94	5.9	2.2	14
Methylene Chloride	0.38	0.38	1.3	1.3
1,4-Dioxane	0.19	0.33	0.68	1.2
Toluene	0.19	0.19	0.71	0.73



Air Toxics

Client Sample ID: D1 (1411017)

Lab ID#: 1407109-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071721	Date of Collection:	6/27/14 2:56:00 PM
Dil. Factor:	1.98	Date of Analysis:	7/17/14 11:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.46	0.98	2.3
Freon 114	0.20	Not Detected	1.4	Not Detected
Chloromethane	0.99	Not Detected	2.0	Not Detected
Vinyl Chloride	0.20	Not Detected	0.51	Not Detected
1,3-Butadiene	0.20	Not Detected	0.44	Not Detected
Bromomethane	0.99	Not Detected	3.8	Not Detected
Chloroethane	0.99	Not Detected	2.6	Not Detected
Freon 11	0.20	Not Detected	1.1	Not Detected
Ethanol	0.99	2.6	1.9	5.0
Freon 113	0.20	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Acetone	0.99	7.9	2.4	19
2-Propanol	0.99	Not Detected	2.4	Not Detected
Carbon Disulfide	0.99	Not Detected	3.1	Not Detected
3-Chloropropene	0.99	Not Detected	3.1	Not Detected
Methylene Chloride	0.40	Not Detected	1.4	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.71	Not Detected
trans-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Hexane	0.20	Not Detected	0.70	Not Detected
1,1-Dichloroethane	0.20	Not Detected	0.80	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.99	0.99	2.9	2.9
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Tetrahydrofuran	0.99	Not Detected	2.9	Not Detected
Chloroform	0.20	Not Detected	0.97	Not Detected
1,1,1-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Cyclohexane	0.20	Not Detected	0.68	Not Detected
Carbon Tetrachloride	0.20	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.99	Not Detected	4.6	Not Detected
Benzene	0.20	Not Detected	0.63	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.80	Not Detected
Heptane	0.20	Not Detected	0.81	Not Detected
Trichloroethene	0.20	Not Detected	1.1	Not Detected
1,2-Dichloropropane	0.20	Not Detected	0.92	Not Detected
1,4-Dioxane	0.20	Not Detected	0.71	Not Detected
Bromodichloromethane	0.20	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.20	Not Detected	0.90	Not Detected
4-Methyl-2-pentanone	0.20	Not Detected	0.81	Not Detected
Toluene	0.20	Not Detected	0.75	Not Detected
trans-1,3-Dichloropropene	0.20	Not Detected	0.90	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	Not Detected	1.3	Not Detected
2-Hexanone	0.99	Not Detected	4.0	Not Detected



Client Sample ID: D1 (1411017)

Lab ID#: 1407109-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071721	Date of Collection:	6/27/14 2:56:00 PM
Dil. Factor:	1.98	Date of Analysis:	7/17/14 11:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.20	Not Detected	1.7	Not Detected
1,2-Dibromoethane (EDB)	0.20	Not Detected	1.5	Not Detected
Chlorobenzene	0.20	Not Detected	0.91	Not Detected
Ethyl Benzene	0.20	Not Detected	0.86	Not Detected
m,p-Xylene	0.20	Not Detected	0.86	Not Detected
o-Xylene	0.20	Not Detected	0.86	Not Detected
Styrene	0.20	Not Detected	0.84	Not Detected
Bromoform	0.20	Not Detected	2.0	Not Detected
Cumene	0.20	Not Detected	0.97	Not Detected
1,1,2,2-Tetrachloroethane	0.20	Not Detected	1.4	Not Detected
Propylbenzene	0.20	Not Detected	0.97	Not Detected
4-Ethyltoluene	0.20	Not Detected	0.97	Not Detected
1,3,5-Trimethylbenzene	0.20	Not Detected	0.97	Not Detected
1,2,4-Trimethylbenzene	0.20	Not Detected	0.97	Not Detected
1,3-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,4-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
alpha-Chlorotoluene	0.20	Not Detected	1.0	Not Detected
1,2-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,2,4-Trichlorobenzene	0.99	Not Detected	7.3	Not Detected
Hexachlorobutadiene	0.99	Not Detected	10	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: D2 (1411018)

Lab ID#: 1407109-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071806	Date of Collection:	6/27/14 3:04:00 PM
Dil. Factor:	1.96	Date of Analysis:	7/18/14 12:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.42	0.97	2.1
Freon 114	0.20	Not Detected	1.4	Not Detected
Chloromethane	0.98	Not Detected	2.0	Not Detected
Vinyl Chloride	0.20	Not Detected	0.50	Not Detected
1,3-Butadiene	0.20	Not Detected	0.43	Not Detected
Bromomethane	0.98	Not Detected	3.8	Not Detected
Chloroethane	0.98	Not Detected	2.6	Not Detected
Freon 11	0.20	0.21	1.1	1.2
Ethanol	0.98	2.7	1.8	5.1
Freon 113	0.20	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Acetone	0.98	4.9	2.3	12
2-Propanol	0.98	Not Detected	2.4	Not Detected
Carbon Disulfide	0.98	Not Detected	3.0	Not Detected
3-Chloropropene	0.98	Not Detected	3.1	Not Detected
Methylene Chloride	0.39	0.51	1.4	1.8
Methyl tert-butyl ether	0.20	Not Detected	0.71	Not Detected
trans-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Hexane	0.20	Not Detected	0.69	Not Detected
1,1-Dichloroethane	0.20	Not Detected	0.79	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.98	Not Detected	2.9	Not Detected
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
Chloroform	0.20	Not Detected	0.96	Not Detected
1,1,1-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Cyclohexane	0.20	Not Detected	0.67	Not Detected
Carbon Tetrachloride	0.20	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Benzene	0.20	Not Detected	0.63	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.79	Not Detected
Heptane	0.20	Not Detected	0.80	Not Detected
Trichloroethene	0.20	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.20	Not Detected	0.90	Not Detected
1,4-Dioxane	0.20	Not Detected	0.71	Not Detected
Bromodichloromethane	0.20	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.20	Not Detected	0.89	Not Detected
4-Methyl-2-pentanone	0.20	Not Detected	0.80	Not Detected
Toluene	0.20	0.26	0.74	1.0
trans-1,3-Dichloropropene	0.20	Not Detected	0.89	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	Not Detected	1.3	Not Detected
2-Hexanone	0.98	Not Detected	4.0	Not Detected



Client Sample ID: D2 (1411018)

Lab ID#: 1407109-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071806	Date of Collection:	6/27/14 3:04:00 PM
Dil. Factor:	1.96	Date of Analysis:	7/18/14 12:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.20	Not Detected	1.7	Not Detected
1,2-Dibromoethane (EDB)	0.20	Not Detected	1.5	Not Detected
Chlorobenzene	0.20	Not Detected	0.90	Not Detected
Ethyl Benzene	0.20	Not Detected	0.85	Not Detected
m,p-Xylene	0.20	Not Detected	0.85	Not Detected
o-Xylene	0.20	Not Detected	0.85	Not Detected
Styrene	0.20	Not Detected	0.83	Not Detected
Bromoform	0.20	Not Detected	2.0	Not Detected
Cumene	0.20	Not Detected	0.96	Not Detected
1,1,2,2-Tetrachloroethane	0.20	Not Detected	1.3	Not Detected
Propylbenzene	0.20	Not Detected	0.96	Not Detected
4-Ethyltoluene	0.20	Not Detected	0.96	Not Detected
1,3,5-Trimethylbenzene	0.20	Not Detected	0.96	Not Detected
1,2,4-Trimethylbenzene	0.20	Not Detected	0.96	Not Detected
1,3-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,4-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
alpha-Chlorotoluene	0.20	Not Detected	1.0	Not Detected
1,2-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,2,4-Trichlorobenzene	0.98	Not Detected	7.3	Not Detected
Hexachlorobutadiene	0.98	Not Detected	10	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: U1 (1411019)

Lab ID#: 1407109-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071807	Date of Collection:	6/27/14 3:18:00 PM
Dil. Factor:	1.89	Date of Analysis:	7/18/14 12:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.43	0.93	2.1
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.94	Not Detected	2.0	Not Detected
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.42	Not Detected
Bromomethane	0.94	Not Detected	3.7	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.19	0.20	1.1	1.1
Ethanol	0.94	1.9	1.8	3.6
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Acetone	0.94	5.9	2.2	14
2-Propanol	0.94	Not Detected	2.3	Not Detected
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
3-Chloropropene	0.94	Not Detected	3.0	Not Detected
Methylene Chloride	0.38	0.38	1.3	1.3
Methyl tert-butyl ether	0.19	Not Detected	0.68	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Hexane	0.19	Not Detected	0.67	Not Detected
1,1-Dichloroethane	0.19	Not Detected	0.76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.92	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.65	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.19	Not Detected	0.60	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Heptane	0.19	Not Detected	0.77	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.87	Not Detected
1,4-Dioxane	0.19	0.33	0.68	1.2
Bromodichloromethane	0.19	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.86	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.77	Not Detected
Toluene	0.19	0.19	0.71	0.73
trans-1,3-Dichloropropene	0.19	Not Detected	0.86	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.94	Not Detected	3.9	Not Detected

Client Sample ID: U1 (1411019)

Lab ID#: 1407109-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071807	Date of Collection: 6/27/14 3:18:00 PM
Dil. Factor:	1.89	Date of Analysis: 7/18/14 12:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.87	Not Detected
Ethyl Benzene	0.19	Not Detected	0.82	Not Detected
m,p-Xylene	0.19	Not Detected	0.82	Not Detected
o-Xylene	0.19	Not Detected	0.82	Not Detected
Styrene	0.19	Not Detected	0.80	Not Detected
Bromoform	0.19	Not Detected	2.0	Not Detected
Cumene	0.19	Not Detected	0.93	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.93	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.93	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.93	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.93	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.98	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.94	Not Detected	7.0	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1407109-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/17/14 09:42 AM

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#: 1407109-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/17/14 09:42 AM

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	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1407109-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/18/14 11:08 AM

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#: 1407109-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/18/14 11:08 AM

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	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1407109-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/17/14 07:29 AM

Compound	%Recovery
Freon 12	90
Freon 114	95
Chloromethane	94
Vinyl Chloride	95
1,3-Butadiene	92
Bromomethane	95
Chloroethane	95
Freon 11	96
Ethanol	74
Freon 113	96
1,1-Dichloroethene	88
Acetone	87
2-Propanol	91
Carbon Disulfide	93
3-Chloropropene	98
Methylene Chloride	90
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	92
Hexane	89
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	94
Tetrahydrofuran	90
Chloroform	92
1,1,1-Trichloroethane	89
Cyclohexane	88
Carbon Tetrachloride	78
2,2,4-Trimethylpentane	90
Benzene	93
1,2-Dichloroethane	94
Heptane	88
Trichloroethene	94
1,2-Dichloropropane	92
1,4-Dioxane	98
Bromodichloromethane	92
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	96
Toluene	95
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	93
Tetrachloroethene	103
2-Hexanone	93



Air Toxics

Client Sample ID: CCV

Lab ID#: 1407109-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/17/14 07:29 AM

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	99
Chlorobenzene	97
Ethyl Benzene	97
m,p-Xylene	99
o-Xylene	98
Styrene	96
Bromoform	102
Cumene	102
1,1,2,2-Tetrachloroethane	97
Propylbenzene	100
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	91

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



Air Toxics

Client Sample ID: CCV

Lab ID#: 1407109-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/18/14 08:29 AM

Compound	%Recovery
Freon 12	88
Freon 114	93
Chloromethane	93
Vinyl Chloride	93
1,3-Butadiene	91
Bromomethane	92
Chloroethane	90
Freon 11	93
Ethanol	73
Freon 113	96
1,1-Dichloroethene	87
Acetone	87
2-Propanol	90
Carbon Disulfide	92
3-Chloropropene	96
Methylene Chloride	89
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	90
Hexane	86
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	92
Tetrahydrofuran	90
Chloroform	89
1,1,1-Trichloroethane	86
Cyclohexane	87
Carbon Tetrachloride	75
2,2,4-Trimethylpentane	88
Benzene	93
1,2-Dichloroethane	96
Heptane	90
Trichloroethene	93
1,2-Dichloropropane	90
1,4-Dioxane	95
Bromodichloromethane	91
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	98
Toluene	95
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	92
Tetrachloroethene	102
2-Hexanone	93

Client Sample ID: CCV

Lab ID#: 1407109-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/18/14 08:29 AM

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	96
Chlorobenzene	95
Ethyl Benzene	95
m,p-Xylene	97
o-Xylene	96
Styrene	97
Bromoform	101
Cumene	101
1,1,2,2-Tetrachloroethane	96
Propylbenzene	102
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1407109-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071703	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/17/14 08:11 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	103	70-130
Chloromethane	99	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	99	70-130
Bromomethane	103	70-130
Chloroethane	103	70-130
Freon 11	104	70-130
Ethanol	79	70-130
Freon 113	119	70-130
1,1-Dichloroethene	109	70-130
Acetone	96	70-130
2-Propanol	96	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	98	70-130
Methylene Chloride	106	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	99	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
cis-1,2-Dichloroethene	114	70-130
Tetrahydrofuran	100	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	72	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	100	70-130
1,2-Dichloroethane	101	70-130
Heptane	97	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	106	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	107	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	105	70-130
2-Hexanone	101	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1407109-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/17/14 08:11 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	100	70-130
o-Xylene	97	70-130
Styrene	101	70-130
Bromoform	103	70-130
Cumene	106	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	90	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	91	70-130
Hexachlorobutadiene	91	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1407109-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/17/14 08:51 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	100	70-130
Chloromethane	100	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	96	70-130
Bromomethane	101	70-130
Chloroethane	102	70-130
Freon 11	102	70-130
Ethanol	80	70-130
Freon 113	117	70-130
1,1-Dichloroethene	104	70-130
Acetone	95	70-130
2-Propanol	96	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	98	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	99	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	112	70-130
Tetrahydrofuran	99	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	71	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	99	70-130
1,2-Dichloroethane	99	70-130
Heptane	96	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	92	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	107	70-130
2-Hexanone	104	70-130

Client Sample ID: LCSD

Lab ID#: 1407109-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/17/14 08:51 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	106	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	104	70-130
o-Xylene	102	70-130
Styrene	104	70-130
Bromoform	106	70-130
Cumene	110	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	110	70-130
4-Ethyltoluene	109	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	94	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	93	70-130
Hexachlorobutadiene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1407109-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/18/14 09:14 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	103	70-130
Chloromethane	101	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	97	70-130
Bromomethane	102	70-130
Chloroethane	101	70-130
Freon 11	103	70-130
Ethanol	81	70-130
Freon 113	117	70-130
1,1-Dichloroethene	104	70-130
Acetone	97	70-130
2-Propanol	98	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	97	70-130
Methylene Chloride	106	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	89	70-130
Hexane	97	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	114	70-130
Tetrahydrofuran	100	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	70	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	99	70-130
1,2-Dichloroethane	102	70-130
Heptane	97	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	105	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	108	70-130
2-Hexanone	103	70-130

Client Sample ID: LCS

Lab ID#: 1407109-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/18/14 09:14 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	99	70-130
o-Xylene	96	70-130
Styrene	101	70-130
Bromoform	107	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	102	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	94	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	92	70-130
Hexachlorobutadiene	93	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: LCS D

Lab ID#: 1407109-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/18/14 09:51 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	99	70-130
Chloromethane	98	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	96	70-130
Bromomethane	101	70-130
Chloroethane	98	70-130
Freon 11	99	70-130
Ethanol	79	70-130
Freon 113	114	70-130
1,1-Dichloroethene	103	70-130
Acetone	95	70-130
2-Propanol	94	70-130
Carbon Disulfide	89	70-130
3-Chloropropene	93	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	84	70-130
Hexane	95	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	96	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	68 Q	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	97	70-130
1,2-Dichloroethane	99	70-130
Heptane	95	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	105	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	106	70-130
2-Hexanone	102	70-130

Client Sample ID: LCSD

Lab ID#: 1407109-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v071804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/18/14 09:51 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	106	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	100	70-130
o-Xylene	98	70-130
Styrene	100	70-130
Bromoform	108	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	102	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	101	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130