



Air Toxics

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160 BLUE HAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager

Collected by: (Print and Sign) Mark Mitchell

Company MO AIR

Email

Address PO Box 1776

City Yuba City State TX Zip 75802

Phone (579) 586-3915

Fax

Project Info:

P.O. # 9554400007

Project #

Project Name Endeavor Low Hill

Turn Around Time:

Normal

Rush

Pressurized by:

Date

Pressurization Gas

N. Hig

Lab ID

Can #

Date of Collection

Time of Collection

Analyses Requested

Canister Pressure/Vacuum

Initial

Final

Recollect

DL (1411871)

5588

9-20-14

1235

TD-15

30

5

5

5

5

DL (1411872)

53831

9-20-14

1135

TD-15

30

5

5

5

5

DL (1411873)

61288

9-20-14

1435

TD-15

30

5

5

5

5

DL (1411874)

34331

9-20-14

1235

TD-15

30

5

5

5

5

Relinquished by: (signature) [Signature] Date/Time 9-22-14 1555

Received by: (signature) [Signature] Date/Time 9/22/14 1555

Notes: Shipped via UPS

Relinquished by: (signature) [Signature] Date/Time 9/22/14 1020

Received by: (signature) [Signature] Date/Time 9/22/14 1035AM

Notes: Tracking # 92880244635103

Relinquished by: (signature) [Signature] Date/Time

Received by: (signature) [Signature] Date/Time

Notes:

SHIPPER Name

Air Bill #

Temp (C)

Condition

Custody Seals intact?

Work Order #

Use ONLY

085

NA

Good

Yes

1409500

10/9/2014
Mr. Dennis Schroeder
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton Landfill
Project #:
Workorder #: 1409500

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 9/26/2014 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 #: 1409500

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. #	3ESP4000007
FAX:	573-526-3350	PROJECT #	Bridgeton Landfill
DATE RECEIVED:	09/26/2014	CONTACT:	Brian Whittaker
DATE COMPLETED:	10/09/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1411871)	Modified TO-15	5.5 "Hg	5.3 psi
02A	D2 (1411872)	Modified TO-15	4.3 "Hg	5.2 psi
03A	U1 (1411873)	Modified TO-15	7.1 "Hg	5.2 psi
04A	U2 (1411874)	Modified TO-15	6.9 "Hg	5.2 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 10/09/14

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-13-6, UT NELAP CA009332014-5, 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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 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Missouri Dept. of Natural Resources
Workorder# 1409500

Four 6 Liter Summa Canister (100% Certified) samples were received on September 26, 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 (1411871)

Lab ID#: 1409500-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.47	0.82	2.3
Freon 11	0.17	0.21	0.94	1.2
Ethanol	0.84	2.3	1.6	4.4
Acetone	0.84	4.6	2.0	11
Carbon Disulfide	0.84	2.4	2.6	7.5
2-Butanone (Methyl Ethyl Ketone)	0.84	1.6	2.5	4.8

Client Sample ID: D2 (1411872)

Lab ID#: 1409500-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.48	0.78	2.4
Freon 11	0.16	0.21	0.89	1.2
Ethanol	0.79	2.3	1.5	4.4
Acetone	0.79	4.9	1.9	12
2-Butanone (Methyl Ethyl Ketone)	0.79	1.4	2.3	4.1

Client Sample ID: U1 (1411873)

Lab ID#: 1409500-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.46	0.88	2.3
Chloromethane	0.89	1.2	1.8	2.4
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.89	4.3	1.7	8.2
Acetone	0.89	6.5	2.1	15
2-Propanol	0.89	1.0	2.2	2.5
2-Butanone (Methyl Ethyl Ketone)	0.89	1.2	2.6	3.6
Chloroform	0.18	0.20	0.87	0.95
Tetrachloroethene	0.18	1.3	1.2	9.0

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

Client Sample ID: U2 (1411874)

Lab ID#: 1409500-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.49	0.87	2.4
Freon 11	0.18	0.21	0.99	1.2
Ethanol	0.88	1.9	1.6	3.6
Acetone	0.88	4.9	2.1	12



Air Toxics

Client Sample ID: D1 (1411871)

Lab ID#: 1409500-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093007	Date of Collection:	9/20/14 4:35:00 PM
Dil. Factor:	1.67	Date of Analysis:	9/30/14 01:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.47	0.82	2.3
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	0.21	0.94	1.2
Ethanol	0.84	2.3	1.6	4.4
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Acetone	0.84	4.6	2.0	11
2-Propanol	0.84	Not Detected	2.0	Not Detected
Carbon Disulfide	0.84	2.4	2.6	7.5
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	1.6	2.5	4.8
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



Air Toxics

Client Sample ID: D1 (1411871)

Lab ID#: 1409500-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093007	Date of Collection:	9/20/14 4:35:00 PM
Dil. Factor:	1.67	Date of Analysis:	9/30/14 01:06 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	0.17	Not Detected	0.86	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	8.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: D2 (1411872)

Lab ID#: 1409500-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093008	Date of Collection:	9/20/14 3:33:00 PM
Dil. Factor:	1.58	Date of Analysis:	9/30/14 01:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.48	0.78	2.4
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.79	Not Detected	1.6	Not Detected
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.16	0.21	0.89	1.2
Ethanol	0.79	2.3	1.5	4.4
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	4.9	1.9	12
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Hexane	0.16	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	1.4	2.3	4.1
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Cyclohexane	0.16	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Benzene	0.16	Not Detected	0.50	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
Heptane	0.16	Not Detected	0.65	Not Detected
Trichloroethene	0.16	Not Detected	0.85	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	Not Detected	0.60	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected



Air Toxics

Client Sample ID: D2 (1411872)

Lab ID#: 1409500-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093008	Date of Collection:	9/20/14 3:33:00 PM
Dil. Factor:	1.58	Date of Analysis:	9/30/14 01:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	Not Detected	0.69	Not Detected
m,p-Xylene	0.16	Not Detected	0.69	Not Detected
o-Xylene	0.16	Not Detected	0.69	Not Detected
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.78	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

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

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

Client Sample ID: U1 (1411873)

Lab ID#: 1409500-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093009	Date of Collection:	9/20/14 4:50:00 PM
Dil. Factor:	1.78	Date of Analysis:	9/30/14 02:41 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.46	0.88	2.3
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.89	1.2	1.8	2.4
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.89	Not Detected	3.4	Not Detected
Chloroethane	0.89	Not Detected	2.3	Not Detected
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.89	4.3	1.7	8.2
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.89	6.5	2.1	15
2-Propanol	0.89	1.0	2.2	2.5
Carbon Disulfide	0.89	Not Detected	2.8	Not Detected
3-Chloropropene	0.89	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.89	1.2	2.6	3.6
cis-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Tetrahydrofuran	0.89	Not Detected	2.6	Not Detected
Chloroform	0.18	0.20	0.87	0.95
1,1,1-Trichloroethane	0.18	Not Detected	0.97	Not Detected
Cyclohexane	0.18	Not Detected	0.61	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.89	Not Detected	4.2	Not Detected
Benzene	0.18	Not Detected	0.57	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.72	Not Detected
Heptane	0.18	Not Detected	0.73	Not Detected
Trichloroethene	0.18	Not Detected	0.96	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.82	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
Toluene	0.18	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.97	Not Detected
Tetrachloroethene	0.18	1.3	1.2	9.0
2-Hexanone	0.89	Not Detected	3.6	Not Detected



Air Toxics

Client Sample ID: U1 (1411873)

Lab ID#: 1409500-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093009	Date of Collection:	9/20/14 4:50:00 PM
Dil. Factor:	1.78	Date of Analysis:	9/30/14 02:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Ethyl Benzene	0.18	Not Detected	0.77	Not Detected
m,p-Xylene	0.18	Not Detected	0.77	Not Detected
o-Xylene	0.18	Not Detected	0.77	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.92	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.89	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.89	Not Detected	9.5	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: U2 (1411874)

Lab ID#: 1409500-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093010	Date of Collection:	9/20/14 5:01:00 PM
Dil. Factor:	1.76	Date of Analysis:	9/30/14 03:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.49	0.87	2.4
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.21	0.99	1.2
Ethanol	0.88	1.9	1.6	3.6
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	4.9	2.1	12
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.8	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	Not Detected	0.62	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.86	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	Not Detected	0.56	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
Trichloroethene	0.18	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected



Air Toxics

Client Sample ID: U2 (1411874)

Lab ID#: 1409500-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093010	Date of Collection:	9/20/14 5:01:00 PM
Dil. Factor:	1.76	Date of Analysis:	9/30/14 03:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.81	Not Detected
Ethyl Benzene	0.18	Not Detected	0.76	Not Detected
m,p-Xylene	0.18	Not Detected	0.76	Not Detected
o-Xylene	0.18	Not Detected	0.76	Not Detected
Styrene	0.18	Not Detected	0.75	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.91	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.4	Not Detected

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

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



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1409500-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/30/14 12:18 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



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1409500-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 12:18 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	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1409500-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 09:05 AM

Compound	%Recovery
Freon 12	105
Freon 114	105
Chloromethane	111
Vinyl Chloride	108
1,3-Butadiene	102
Bromomethane	92
Chloroethane	97
Freon 11	98
Ethanol	81
Freon 113	102
1,1-Dichloroethene	101
Acetone	89
2-Propanol	94
Carbon Disulfide	89
3-Chloropropene	98
Methylene Chloride	106
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	101
Hexane	98
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	101
Tetrahydrofuran	102
Chloroform	98
1,1,1-Trichloroethane	96
Cyclohexane	96
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	78
Benzene	120
1,2-Dichloroethane	107
Heptane	110
Trichloroethene	108
1,2-Dichloropropane	110
1,4-Dioxane	96
Bromodichloromethane	110
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	98
Toluene	107
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	108
Tetrachloroethene	104
2-Hexanone	97

Client Sample ID: CCV

Lab ID#: 1409500-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 09:05 AM

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	106
Chlorobenzene	105
Ethyl Benzene	105
m,p-Xylene	105
o-Xylene	106
Styrene	99
Bromoform	109
Cumene	106
1,1,2,2-Tetrachloroethane	102
Propylbenzene	105
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	102

Container Type: NA - Not Applicable

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



Air Toxics

Client Sample ID: LCS

Lab ID#: 1409500-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 09:51 AM

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	97	70-130
Chloromethane	103	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	95	70-130
Bromomethane	87	70-130
Chloroethane	90	70-130
Freon 11	91	70-130
Ethanol	79	70-130
Freon 113	107	70-130
1,1-Dichloroethene	105	70-130
Acetone	84	70-130
2-Propanol	88	70-130
Carbon Disulfide	76	70-130
3-Chloropropene	90	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	83	70-130
Hexane	94	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	96	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	91	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	57 Q	70-130
2,2,4-Trimethylpentane	74	70-130
Benzene	106	70-130
1,2-Dichloroethane	95	70-130
Heptane	102	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	88	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	91	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	86	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	95	70-130
2-Hexanone	93	70-130

Client Sample ID: LCS

Lab ID#: 1409500-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 09:51 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	94	70-130
Chlorobenzene	93	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	95	70-130
o-Xylene	92	70-130
Styrene	92	70-130
Bromoform	96	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	90	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	85	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	89	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	91	70-130
1,2,4-Trichlorobenzene	78	70-130
Hexachlorobutadiene	87	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1409500-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 10:35 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	98	70-130
Chloromethane	103	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	94	70-130
Bromomethane	87	70-130
Chloroethane	91	70-130
Freon 11	92	70-130
Ethanol	79	70-130
Freon 113	107	70-130
1,1-Dichloroethene	106	70-130
Acetone	83	70-130
2-Propanol	88	70-130
Carbon Disulfide	76	70-130
3-Chloropropene	91	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	91	70-130
trans-1,2-Dichloroethene	83	70-130
Hexane	94	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	94	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	57 Q	70-130
2,2,4-Trimethylpentane	74	70-130
Benzene	105	70-130
1,2-Dichloroethane	93	70-130
Heptane	98	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	86	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	92	70-130
trans-1,3-Dichloropropene	84	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	92	70-130
2-Hexanone	91	70-130

Client Sample ID: LCSD

Lab ID#: 1409500-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e093004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/30/14 10:35 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	94	70-130
Chlorobenzene	92	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	93	70-130
o-Xylene	91	70-130
Styrene	89	70-130
Bromoform	94	70-130
Cumene	95	70-130
1,1,2,2-Tetrachloroethane	88	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	84	70-130
1,3-Dichlorobenzene	89	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	75	70-130
Hexachlorobutadiene	85	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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