



ATMOSPHERIC ANALYSIS & CONSULTING, INC.  
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AAC Project No. \_\_\_\_\_

Page 1 of 1

**CHAIN OF CUSTODY / ANALYSIS REQUEST FORM**

Client Name <i>NO DNR</i>		Project Name <i>Bidaxten LF</i>		Analysis Requested		Send report:	
Project Mgr (Print Name) <i>Michael Parris</i>		Project Number				Attn: _____	
Sampler's Name (Print Name) <i>Teresa Trevany</i>		Sampler's Signature <i>[Signature]</i>				Phone#: _____ Fax#: _____	
AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers	Send invoice to: _____	
<i>Can # 839</i>	<i>9/14/15</i>	<i>1043-1125</i>	<i>Summa-Tined</i>	<i>D1 (153584)</i>	<i>-30 -5</i>	P.O. # <i>250700007</i>	
<i>Can # <del>830</del> 151</i>	<i>9/14/15</i>	<i>1101-1143</i>	<i>Summa-Tined</i>	<i>U1 (153585)</i>	<i>-30 -5</i>	Attn: _____	
						Turnaround Time 24-Hr _____ 48-Hr _____	
						5 Day <input checked="" type="checkbox"/> Normal _____	
						Other (Specify) _____	
						Special Instructions/remarks: <i>Shipped via UPS</i>	
						<i>Tracking#</i>	
						<i>120727880243559860</i>	
Relinquished by (Signature): <i>[Signature]</i>		Print Name: <i>Teresa Trevany</i>		Date/Time <i>9/17/15 11:25</i>		Received by (signature): <i>[Signature]</i>	
Relinquished by (Signature): <i>[Signature]</i>		Print Name: <i>Michael Parris</i>		Date/Time <i>9/18/15 08:00</i>		Received by (signature): <i>[Signature]</i>	
		Print Name: <i>Michael Parris</i>					

9/19/2015  
Mr. Dennis Schroeder  
Missouri Dept. of Natural Resources  
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton Landfill  
Project #:  
Workorder #: 1509126

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 9/9/2015 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free 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 #: 1509126**

Work Order Summary

<b>CLIENT:</b>	Mr. Dennis Schroeder Missouri Dept. of Natural Resources 2710 West Main Jefferson City, MO 65109	<b>BILL TO:</b>	Accounts Payable Missouri Dept. of Natural Resources P.O Box 176 Jefferson City, MO 65102
<b>PHONE:</b>	573-526-4428	<b>P.O. #</b>	3ESP4000007
<b>FAX:</b>	573-526-3350	<b>PROJECT #</b>	Bridgeton Landfill
<b>DATE RECEIVED:</b>	09/09/2015	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	09/19/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (153577)	Modified TO-15	6.7 "Hg	4.9 psi
02A	D2 (153578)	Modified TO-15	7.6 "Hg	5.1 psi
03A	U1 (153579)	Modified TO-15	7.8 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 09/19/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,  
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

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# 1509126**

Three 6 Liter Summa Canister (100% Certified) samples were received on September 09, 2015. 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**

The reporting limit for Freon 12, 4-Methyl-2-pentanone, and alpha-Chlorotoluene was raised from 0.10 ppbv to 0.50 ppbv due to poor peak quality at the standard reporting limit.

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 (153577)**

**Lab ID#: 1509126-01A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	7.5	1.6	14
Acetone	0.86	9.1	2.0	22
2-Propanol	0.86	1.0	2.1	2.6
Hexane	0.17	0.19	0.61	0.67
2-Butanone (Methyl Ethyl Ketone)	0.86	1.3	2.5	3.9
Toluene	0.17	0.19	0.65	0.72

**Client Sample ID: D2 (153578)**

**Lab ID#: 1509126-02A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.18	0.33	1.0	1.8
Ethanol	0.90	5.3	1.7	10
Acetone	0.90	9.3	2.1	22
Hexane	0.18	0.18	0.63	0.65
2-Butanone (Methyl Ethyl Ketone)	0.90	1.2	2.6	3.5
Toluene	0.18	0.19	0.68	0.70

**Client Sample ID: U1 (153579)**

**Lab ID#: 1509126-03A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.18	0.37	1.0	2.1
Ethanol	0.90	7.2	1.7	14
Acetone	0.90	8.5	2.1	20
Hexane	0.18	0.20	0.64	0.72
2-Butanone (Methyl Ethyl Ketone)	0.90	1.2	2.7	3.4
Toluene	0.18	0.20	0.68	0.77



Air Toxics

Client Sample ID: D1 (153577)

Lab ID#: 1509126-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091414	Date of Collection:	9/1/15 2:34:00 PM
Dil. Factor:	1.72	Date of Analysis:	9/14/15 05:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	Not Detected	1.8	Not Detected
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	7.5	1.6	14
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	9.1	2.0	22
2-Propanol	0.86	1.0	2.1	2.6
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	0.19	0.61	0.67
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	1.3	2.5	3.9
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.84	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.17	0.19	0.65	0.72
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected

Client Sample ID: D1 (153577)

Lab ID#: 1509126-01A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

<b>File Name:</b>	v091414	<b>Date of Collection:</b> 9/1/15 2:34:00 PM
<b>Dil. Factor:</b>	1.72	<b>Date of Analysis:</b> 9/14/15 05:49 PM

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

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130





Air Toxics

Client Sample ID: D2 (153578)

Lab ID#: 1509126-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091415	Date of Collection:	9/1/15 2:45:00 PM
Dil. Factor:	1.80	Date of Analysis:	9/14/15 06:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.18	0.33	1.0	1.8
Ethanol	0.90	5.3	1.7	10
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	9.3	2.1	22
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.65	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	0.18	0.63	0.65
1,1-Dichloroethane	0.18	Not Detected	0.73	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.2	2.6	3.5
cis-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.88	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Benzene	0.18	Not Detected	0.58	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.73	Not Detected
Heptane	0.18	Not Detected	0.74	Not Detected
Trichloroethene	0.18	Not Detected	0.97	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.65	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Toluene	0.18	0.19	0.68	0.70
trans-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected



Client Sample ID: D2 (153578)

Lab ID#: 1509126-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091415	Date of Collection:	9/1/15 2:45:00 PM
Dil. Factor:	1.80	Date of Analysis:	9/14/15 06:24 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	0.83	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	Not Detected	0.78	Not Detected
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	Not Detected	0.77	Not Detected
Bromoform	0.18	Not Detected	1.9	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	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.7	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: U1 (153579)

Lab ID#: 1509126-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091416	Date of Collection:	9/1/15 3:00:00 PM
Dil. Factor:	1.81	Date of Analysis:	9/14/15 07:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.90	Not Detected	4.5	Not Detected
Freon 114	0.18	Not Detected	1.3	Not Detected
Chloromethane	0.90	Not Detected	1.9	Not Detected
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.18	0.37	1.0	2.1
Ethanol	0.90	7.2	1.7	14
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Acetone	0.90	8.5	2.1	20
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.65	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Hexane	0.18	0.20	0.64	0.72
1,1-Dichloroethane	0.18	Not Detected	0.73	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.2	2.7	3.4
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.7	Not Detected
Chloroform	0.18	Not Detected	0.88	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.99	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Benzene	0.18	Not Detected	0.58	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.73	Not Detected
Heptane	0.18	Not Detected	0.74	Not Detected
Trichloroethene	0.18	Not Detected	0.97	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.84	Not Detected
1,4-Dioxane	0.18	Not Detected	0.65	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Toluene	0.18	0.20	0.68	0.77
trans-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.99	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected



Client Sample ID: U1 (153579)

Lab ID#: 1509126-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091416	Date of Collection:	9/1/15 3:00:00 PM
Dil. Factor:	1.81	Date of Analysis:	9/14/15 07:00 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	0.83	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	Not Detected	0.78	Not Detected
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	Not Detected	0.77	Not Detected
Bromoform	0.18	Not Detected	1.9	Not Detected
Cumene	0.18	Not Detected	0.89	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.89	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.89	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.89	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.89	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	0.90	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.7	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 1509126-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/14/15 12:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	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	0.50	Not Detected	2.0	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#: 1509126-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/14/15 12:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	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	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1509126-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/15 09:43 AM

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



Air Toxics

Client Sample ID: CCV

Lab ID#: 1509126-05A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	v091402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/15 09:43 AM

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	116
Chlorobenzene	115
Ethyl Benzene	112
m,p-Xylene	118
o-Xylene	119
Styrene	117
Bromoform	101
Cumene	118
1,1,2,2-Tetrachloroethane	104
Propylbenzene	115
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130





Air Toxics

Client Sample ID: LCS

Lab ID#: 1509126-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/15 10:24 AM

Compound	%Recovery	Method Limits
Freon 12	118	70-130
Freon 114	118	70-130
Chloromethane	107	70-130
Vinyl Chloride	118	70-130
1,3-Butadiene	112	70-130
Bromomethane	113	70-130
Chloroethane	115	70-130
Freon 11	117	70-130
Ethanol	134 Q	70-130
Freon 113	112	70-130
1,1-Dichloroethene	110	70-130
Acetone	107	70-130
2-Propanol	120	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	115	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	104	70-130
1,1-Dichloroethane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	120	70-130
cis-1,2-Dichloroethene	126	70-130
Tetrahydrofuran	110	70-130
Chloroform	111	70-130
1,1,1-Trichloroethane	108	70-130
Cyclohexane	117	70-130
Carbon Tetrachloride	115	70-130
2,2,4-Trimethylpentane	112	70-130
Benzene	105	70-130
1,2-Dichloroethane	104	70-130
Heptane	116	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	105	70-130
Bromodichloromethane	112	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	113	70-130
Toluene	104	70-130
trans-1,3-Dichloropropene	113	70-130
1,1,2-Trichloroethane	113	70-130
Tetrachloroethene	109	70-130
2-Hexanone	133 Q	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1509126-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091403	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/14/15 10:24 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	117	70-130
Chlorobenzene	112	70-130
Ethyl Benzene	114	70-130
m,p-Xylene	121	70-130
o-Xylene	126	70-130
Styrene	127	70-130
Bromoform	114	70-130
Cumene	122	70-130
1,1,2,2-Tetrachloroethane	104	70-130
Propylbenzene	120	70-130
4-Ethyltoluene	118	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	115	70-130
1,4-Dichlorobenzene	112	70-130
alpha-Chlorotoluene	120	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	102	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1509126-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091404	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/14/15 11:04 AM

Compound	%Recovery	Method Limits
Freon 12	113	70-130
Freon 114	114	70-130
Chloromethane	105	70-130
Vinyl Chloride	109	70-130
1,3-Butadiene	107	70-130
Bromomethane	107	70-130
Chloroethane	108	70-130
Freon 11	112	70-130
Ethanol	126	70-130
Freon 113	107	70-130
1,1-Dichloroethene	102	70-130
Acetone	100	70-130
2-Propanol	113	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	100	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	99	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
cis-1,2-Dichloroethene	118	70-130
Tetrahydrofuran	109	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	108	70-130
1,2-Dichloroethane	106	70-130
Heptane	117	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	110	70-130
1,4-Dioxane	105	70-130
Bromodichloromethane	113	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	113	70-130
Toluene	106	70-130
trans-1,3-Dichloropropene	110	70-130
1,1,2-Trichloroethane	110	70-130
Tetrachloroethene	108	70-130
2-Hexanone	137 Q	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1509126-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/15 11:04 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	117	70-130
Chlorobenzene	112	70-130
Ethyl Benzene	115	70-130
m,p-Xylene	117	70-130
o-Xylene	126	70-130
Styrene	121	70-130
Bromoform	115	70-130
Cumene	121	70-130
1,1,2,2-Tetrachloroethane	106	70-130
Propylbenzene	119	70-130
4-Ethyltoluene	117	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	113	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	113	70-130
alpha-Chlorotoluene	120	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	100	70-130
Hexachlorobutadiene	104	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	101	70-130
4-Bromofluorobenzene	99	70-130