



Air Toxics

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(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager

Michael Parris

Collected by: (Print and Sign)

Kirk Mitchell

Company

MPDNR

Email

Address

P.O. Box 1716 City: Thompson City State MO Zip: 65102

Phone (573) 526-3913

Fax

Project Info:

P.O. # 385P400007

Project #

Project Name: Projectory (unfilled)

Turn Around Time:

Normal

Rush

Lab Use Only

Pressurized by:

Date:

Pressurization Gas:

N<sub>2</sub> He specify

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyzes Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)

DA	D1 (1412561)	25244	2-8-15	1005-1427	TD-15	-29	-6		
DA	D2 (151346)	5698	2-8-15	1044-1511	TD-15	-30	-9		
SSA	U1 (151347)	20997	2-8-15	1403-1523	TD-15	-29	-8.5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Notes:
Kirk Mitchell	2-9-15	Michael Parris	2/9/15	Shipped via UPS
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Tracking# 1Z672K803435A9575
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	

Lab Use Only

Shipper Name: K. Parris

Air Bill #

Temp (°C): MA

Condition: Good

Custody Seals Intact?  Yes  No Name: Parris

Work Order #: 1502273

2/26/2015

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

Jefferson City MO 65109

Project Name: Bridgeton Landfill

Project #:

Workorder #: 1502275

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 2/17/2015 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 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 #: 1502275**

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>	02/17/2015	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	02/26/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1412558)	Modified TO-15	6.1 "Hg	4.9 psi
02A	U1 (1412560)	Modified TO-15	7.6 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

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

DATE: 02/26/15

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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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Missouri Dept. of Natural Resources**  
**Workorder# 1502275**

Two 6 Liter Summa Canister (100% Certified) samples were received on February 17, 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	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	$\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

### **Definition of Data Qualifying Flags**

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector  
r1-File was requantified for the purpose of reissue

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

**Client Sample ID: D1 (1412558)**

**Lab ID#: 1502275-01A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.17	0.52	0.83	2.6
Freon 11	0.17	0.24	0.94	1.4
Ethanol	0.84	2.0	1.6	3.8
Acetone	0.84	5.1	2.0	12
Hexane	0.17	0.17	0.59	0.59
2-Butanone (Methyl Ethyl Ketone)	0.84	0.93	2.5	2.7
Benzene	0.17	0.24	0.54	0.75
Toluene	0.17	0.18	0.63	0.67

**Client Sample ID: U1 (1412560)**

**Lab ID#: 1502275-02A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.18	0.52	0.88	2.5
Freon 11	0.18	0.23	1.0	1.3
Ethanol	0.90	1.4	1.7	2.6
Acetone	0.90	3.9	2.1	9.4
Hexane	0.18	0.19	0.63	0.68
Benzene	0.18	0.21	0.57	0.66



Air Toxics

Client Sample ID: D1 (1412558)

Lab ID#: 1502275-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022013	Date of Collection:	2/7/15 4:03:00 PM
Dil. Factor:	1.68	Date of Analysis:	2/20/15 07:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.52	0.83	2.6
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.24	0.94	1.4
Ethanol	0.84	2.0	1.6	3.8
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	5.1	2.0	12
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	0.17	0.59	0.59
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	0.93	2.5	2.7
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	0.24	0.54	0.75
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	0.18	0.63	0.67
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected

Client Sample ID: D1 (1412558)

Lab ID#: 1502275-01A

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

File Name:	20022013	Date of Collection:	2/7/15 4:03:00 PM
Dil. Factor:	1.68	Date of Analysis:	2/20/15 07:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected UJ	6.2	Not Detected UJ
Hexachlorobutadiene	0.84	Not Detected UJ	9.0	Not Detected UJ

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130





Air Toxics

Client Sample ID: U1 (1412560)

Lab ID#: 1502275-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022014	Date of Collection:	2/7/15 4:25:00 PM
Dil. Factor:	1.79	Date of Analysis:	2/20/15 08:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.88	2.5
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	0.23	1.0	1.3
Ethanol	0.90	1.4	1.7	2.6
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	3.9	2.1	9.4
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	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	0.19	0.63	0.68
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	Not Detected	2.6	Not Detected
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	0.87	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	0.21	0.57	0.66
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	0.83	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	0.98	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected



Client Sample ID: U1 (1412560)

Lab ID#: 1502275-02A

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

File Name:	20022014	Date of Collection:	2/7/15 4:25:00 PM
Dil. Factor:	1.79	Date of Analysis:	2/20/15 08:37 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	0.78	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	0.76	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	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected UJ	6.6	Not Detected UJ
Hexachlorobutadiene	0.90	Not Detected UJ	9.5	Not Detected UJ

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1502275-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022008a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/20/15 02:34 PM

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



Client Sample ID: Lab Blank

Lab ID#: 1502275-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022008a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/20/15 02:34 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 UJ	3.7	Not Detected UJ
Hexachlorobutadiene	0.50	Not Detected UJ	5.3	Not Detected UJ

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1502275-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/20/15 05:33 AM

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



Air Toxics

Client Sample ID: CCV

Lab ID#: 1502275-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/20/15 05:33 AM

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	106
Chlorobenzene	105
Ethyl Benzene	105
m,p-Xylene	102
o-Xylene	100
Styrene	89
Bromoform	103
Cumene	101
1,1,2,2-Tetrachloroethane	106
Propylbenzene	97
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	66 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCS

Lab ID#: 1502275-05A

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

<b>File Name:</b>	<b>20022003</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 2/20/15 06:26 AM</b>

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Freon 12	115	70-130
Freon 114	111	70-130
Chloromethane	102	70-130
Vinyl Chloride	110	70-130
1,3-Butadiene	101	60-140
Bromomethane	104	70-130
Chloroethane	111	70-130
Freon 11	111	70-130
Ethanol	113	60-140
Freon 113	101	70-130
1,1-Dichloroethene	103	70-130
Acetone	100	60-140
2-Propanol	111	60-140
Carbon Disulfide	94	60-140
3-Chloropropene	117	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	103	60-140
trans-1,2-Dichloroethene	90	60-140
Hexane	105	60-140
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	102	60-140
cis-1,2-Dichloroethene	111	70-130
Tetrahydrofuran	108	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	104	60-140
Carbon Tetrachloride	121	70-130
2,2,4-Trimethylpentane	101	70-130
Benzene	108	70-130
1,2-Dichloroethane	110	70-130
Heptane	106	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	110	70-130
1,4-Dioxane	105	60-140
Bromodichloromethane	112	60-140
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	111	70-130
Toluene	106	70-130
trans-1,3-Dichloropropene	109	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	103	70-130
2-Hexanone	108	70-130

Client Sample ID: LCS

Lab ID#: 1502275-05A

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

File Name:	20022003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/20/15 06:26 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	100	70-130
o-Xylene	101	70-130
Styrene	93	70-130
Bromoform	108	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	109	70-130
Propylbenzene	100	70-130
4-Ethyltoluene	102	70-130
1,3,5-Trimethylbenzene	91	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	99	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	72	70-130
Hexachlorobutadiene	69 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	97	70-130





Air Toxics

Client Sample ID: LCSD

Lab ID#: 1502275-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20022004	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/20/15 07:08 AM

Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	108	70-130
Chloromethane	102	70-130
Vinyl Chloride	109	70-130
1,3-Butadiene	100	60-140
Bromomethane	103	70-130
Chloroethane	111	70-130
Freon 11	110	70-130
Ethanol	110	60-140
Freon 113	98	70-130
1,1-Dichloroethene	101	70-130
Acetone	98	60-140
2-Propanol	108	60-140
Carbon Disulfide	92	60-140
3-Chloropropene	115	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	101	60-140
trans-1,2-Dichloroethene	90	60-140
Hexane	104	60-140
1,1-Dichloroethane	107	70-130
2-Butanone (Methyl Ethyl Ketone)	103	60-140
cis-1,2-Dichloroethene	112	70-130
Tetrahydrofuran	108	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	103	60-140
Carbon Tetrachloride	120	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	110	70-130
1,2-Dichloroethane	110	70-130
Heptane	105	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	108	70-130
1,4-Dioxane	104	60-140
Bromodichloromethane	112	60-140
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	108	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	103	70-130
2-Hexanone	102	70-130

Client Sample ID: LCSD

Lab ID#: 1502275-05AA

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

File Name:	20022004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/20/15 07:08 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	98	70-130
o-Xylene	98	70-130
Styrene	89	70-130
Bromoform	104	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	85	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	89	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	86	70-130
1,2,4-Trichlorobenzene	67 Q	70-130
Hexachlorobutadiene	64 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130