



Air Toxics

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Page 1 of 1

Project Manager Foster Michael Ferris

Collected by: (Print and Sign) Teresa Murray

Company MO DNR Email Michael.Perris@dnr.ca.gov

Address P.O. Box 171 City Jefferson City State MO Zip 65102

Phone (573) 826-3918 Fax _____

Project Info:

P.O. # 3350400007

Project # _____

Project Name Bridgeton LF

Turn Around Time:

Normal

Rush

Lab Use Only

Pressurized by: _____

Date: _____

Pressurization Gas: _____

specify N₂ He

Canister Pressure/Vacuum

Initial Final Receipt Final (psi)

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Initial	Final	Receipt	Final (psi)
01A	BT (153591)	33579	9/24/15	9:45	TO-15	-30	-6		
08A	BT (153592)	610068	9/24/15	9:35	TO-15	-30	-6.5		
	BT N/A	94303	9/24/15		Insufficient vacuum - do not analyze	-15	-		
	N/A	611289	9/24/15		Insufficient vacuum - do not analyze	-5	-		

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Lab Use Only Shipper Name UPS Air Bill # _____ Temp (°C) N/A Condition Good Custody Seals Intact? Yes No None Work Order # 1509498

Notes:
Shipped via UPS
Tracking # 1ZK0Y0W0398468174

10/13/2015
Mr. Dennis Schroeder
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton LF
Project #:
Workorder #: 1509498

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 9/30/2015 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 #: 1509498

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 LF
DATE RECEIVED:	09/30/2015	CONTACT:	Brian Whittaker
DATE COMPLETED:	10/13/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	U1(153591)	Modified TO-15	5.0 "Hg	5 psi
02A	D1(153592)	Modified TO-15	6.5 "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: 10/13/15

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
EPA Method TO-15
Missouri Dept. of Natural Resources
Workorder# 1509498

Two 6 Liter Summa Canister (100% Certified) samples were received on September 30, 2015. The laboratory performed analysis via 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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: U1(153591)

Lab ID#: 1509498-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.80	2.1
Freon 11	0.16	0.21	0.90	1.2
Ethanol	0.80	6.7	1.5	13
Acetone	0.80	7.6	1.9	18
2-Propanol	0.80	16	2.0	38
Methylene Chloride	0.32	0.76	1.1	2.6
Hexane	0.16	0.39	0.57	1.4
2-Butanone (Methyl Ethyl Ketone)	0.80	1.1	2.4	3.2
Cyclohexane	0.16	0.46	0.55	1.6
Benzene	0.16	0.19	0.51	0.60
Heptane	0.16	0.32	0.66	1.3
4-Methyl-2-pentanone	0.16	0.24	0.66	1.0
Toluene	0.16	8.4	0.61	31
Tetrachloroethene	0.16	0.17	1.1	1.1
m,p-Xylene	0.16	0.40	0.70	1.7
o-Xylene	0.16	0.17	0.70	0.75

Client Sample ID: D1(153592)

Lab ID#: 1509498-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.44	0.84	2.2
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.86	6.2	1.6	12
Acetone	0.86	7.7	2.0	18
2-Propanol	0.86	1.4	2.1	3.4
Methylene Chloride	0.34	0.77	1.2	2.7
Hexane	0.17	0.25	0.60	0.88
2-Butanone (Methyl Ethyl Ketone)	0.86	1.7	2.5	5.1
Benzene	0.17	0.17	0.55	0.56
Toluene	0.17	0.55	0.64	2.0



Air Toxics

Client Sample ID: U1(153591)

Lab ID#: 1509498-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100108	Date of Collection:	9/24/15 2:05:00 PM
Dil. Factor:	1.61	Date of Analysis:	10/1/15 10:40 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.80	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.80	Not Detected	1.7	Not Detected
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.16	0.21	0.90	1.2
Ethanol	0.80	6.7	1.5	13
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Acetone	0.80	7.6	1.9	18
2-Propanol	0.80	16	2.0	38
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	0.76	1.1	2.6
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Hexane	0.16	0.39	0.57	1.4
1,1-Dichloroethane	0.16	Not Detected	0.65	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	1.1	2.4	3.2
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Cyclohexane	0.16	0.46	0.55	1.6
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Benzene	0.16	0.19	0.51	0.60
1,2-Dichloroethane	0.16	Not Detected	0.65	Not Detected
Heptane	0.16	0.32	0.66	1.3
Trichloroethene	0.16	Not Detected	0.86	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	0.24	0.66	1.0
Toluene	0.16	8.4	0.61	31
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.88	Not Detected
Tetrachloroethene	0.16	0.17	1.1	1.1
2-Hexanone	0.80	Not Detected	3.3	Not Detected



Client Sample ID: U1(153591)

Lab ID#: 1509498-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100108	Date of Collection: 9/24/15 2:05:00 PM
Dil. Factor:	1.61	Date of Analysis: 10/1/15 10:40 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Ethyl Benzene	0.16	Not Detected	0.70	Not Detected
m,p-Xylene	0.16	0.40	0.70	1.7
o-Xylene	0.16	0.17	0.70	0.75
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: D1(153592)

Lab ID#: 1509498-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100109	Date of Collection:	9/24/15 2:56:00 PM
Dil. Factor:	1.71	Date of Analysis:	10/1/15 11:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.44	0.84	2.2
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	2.2	Not Detected
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.86	6.2	1.6	12
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	7.7	2.0	18
2-Propanol	0.86	1.4	2.1	3.4
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	0.77	1.2	2.7
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	0.25	0.60	0.88
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	1.7	2.5	5.1
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	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	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	0.17	0.55	0.56
1,2-Dichloroethane	0.17	Not Detected	0.69	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	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.55	0.64	2.0
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	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(153592)

Lab ID#: 1509498-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100109	Date of Collection: 9/24/15 2:56:00 PM
Dil. Factor:	1.71	Date of Analysis: 10/1/15 11:22 AM

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	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.74	Not Detected
m,p-Xylene	0.17	Not Detected	0.74	Not Detected
o-Xylene	0.17	Not Detected	0.74	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	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

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

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



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1509498-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100107	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/1/15 09:51 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#: 1509498-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100107	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 09:51 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	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1509498-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 06:02 AM

Compound	%Recovery
Freon 12	115
Freon 114	113
Chloromethane	118
Vinyl Chloride	103
1,3-Butadiene	104
Bromomethane	106
Chloroethane	102
Freon 11	120
Ethanol	103
Freon 113	129
1,1-Dichloroethene	110
Acetone	97
2-Propanol	109
Carbon Disulfide	119
3-Chloropropene	104
Methylene Chloride	104
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	109
Hexane	111
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	118
Tetrahydrofuran	111
Chloroform	117
1,1,1-Trichloroethane	120
Cyclohexane	110
Carbon Tetrachloride	116
2,2,4-Trimethylpentane	111
Benzene	105
1,2-Dichloroethane	118
Heptane	110
Trichloroethene	105
1,2-Dichloropropane	99
1,4-Dioxane	105
Bromodichloromethane	109
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	104
Toluene	109
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	103
Tetrachloroethene	114
2-Hexanone	107

Client Sample ID: CCV

Lab ID#: 1509498-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 06:02 AM

Compound	%Recovery
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	112
Chlorobenzene	107
Ethyl Benzene	116
m,p-Xylene	117
o-Xylene	115
Styrene	124
Bromoform	115
Cumene	121
1,1,2,2-Tetrachloroethane	96
Propylbenzene	115
4-Ethyltoluene	118
1,3,5-Trimethylbenzene	120
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1509498-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 07:31 AM

Compound	%Recovery	Method Limits
Freon 12	112	70-130
Freon 114	112	70-130
Chloromethane	101	70-130
Vinyl Chloride	95	70-130
1,3-Butadiene	94	70-130
Bromomethane	104	70-130
Chloroethane	100	70-130
Freon 11	112	70-130
Ethanol	100	70-130
Freon 113	100	70-130
1,1-Dichloroethene	107	70-130
Acetone	88	70-130
2-Propanol	106	70-130
Carbon Disulfide	78	70-130
3-Chloropropene	90	70-130
Methylene Chloride	96	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	104	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	110	70-130
Tetrahydrofuran	100	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	113	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	96	70-130
1,2-Dichloroethane	105	70-130
Heptane	100	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	104	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	102	70-130
2-Hexanone	110	70-130

Client Sample ID: LCS

Lab ID#: 1509498-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 07:31 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	107	70-130
Ethyl Benzene	111	70-130
m,p-Xylene	115	70-130
o-Xylene	111	70-130
Styrene	121	70-130
Bromoform	112	70-130
Cumene	115	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	115	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	113	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	112	70-130
1,2,4-Trichlorobenzene	105	70-130
Hexachlorobutadiene	104	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1509498-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 08:18 AM

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	108	70-130
Chloromethane	98	70-130
Vinyl Chloride	95	70-130
1,3-Butadiene	94	70-130
Bromomethane	100	70-130
Chloroethane	100	70-130
Freon 11	112	70-130
Ethanol	95	70-130
Freon 113	98	70-130
1,1-Dichloroethene	101	70-130
Acetone	85	70-130
2-Propanol	104	70-130
Carbon Disulfide	77	70-130
3-Chloropropene	90	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	80	70-130
Hexane	103	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	113	70-130
Tetrahydrofuran	103	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	110	70-130
Cyclohexane	102	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	94	70-130
1,2-Dichloroethane	104	70-130
Heptane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	89	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	98	70-130
2-Hexanone	109	70-130

Client Sample ID: LCSD

Lab ID#: 1509498-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e100105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/15 08:18 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	108	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	114	70-130
m,p-Xylene	111	70-130
o-Xylene	107	70-130
Styrene	119	70-130
Bromoform	111	70-130
Cumene	114	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	113	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	110	70-130
1,4-Dichlorobenzene	110	70-130
alpha-Chlorotoluene	108	70-130
1,2-Dichlorobenzene	112	70-130
1,2,4-Trichlorobenzene	107	70-130
Hexachlorobutadiene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	101	70-130