

8/23/2016
Mr. Curt Lueckenhoff
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton Landfill
Project #:
Workorder #: 1608268

Dear Mr. Curt Lueckenhoff

The following report includes the data for the above referenced project for sample(s) received on 8/10/2016 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 to 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 #: 1608268

Work Order Summary

CLIENT:	Mr. Curt Lueckenhoff 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:	573-526-3363	P.O. #	3ESP161130
FAX:	573-526-3350	PROJECT #	Bridgeton Landfill
DATE RECEIVED:	08/10/2016	CONTACT:	Brian Whittaker
DATE COMPLETED:	08/23/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (162948)	Modified TO-15	6.5 "Hg	5 psi
02A	D2 (162949)	Modified TO-15	6.5 "Hg	5 psi
03A	U1 (162950)	Modified TO-15	7.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 08/23/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
 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# 1608268

Three 6 Liter Summa Canister (100% Certified) samples were received on August 10, 2016. 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 EATL 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. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for 1,2,4-Trichlorobenzene and Hexachlorobutadiene (analytical batch from 8/18/16).

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 (162948)

Lab ID#: 1608268-01A

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	0.22	0.96	1.2
Ethanol	0.86	13	1.6	25
Acetone	0.86	10	2.0	25
2-Propanol	0.86	1.1	2.1	2.8
Hexane	0.17	0.31	0.60	1.1
2-Butanone (Methyl Ethyl Ketone)	0.86	1.8	2.5	5.3
Heptane	0.17	0.21	0.70	0.88
Toluene	0.17	0.41	0.64	1.5

Client Sample ID: D2 (162949)

Lab ID#: 1608268-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Freon 11	0.17	0.25	0.96	1.4
Ethanol	0.86	7.8	1.6	15
Acetone	0.86	9.4	2.0	22
Hexane	0.17	0.18	0.60	0.64
2-Butanone (Methyl Ethyl Ketone)	0.86	1.3	2.5	3.9
Toluene	0.17	0.31	0.64	1.2

Client Sample ID: U1 (162950)

Lab ID#: 1608268-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.86	2.2
Freon 11	0.18	0.52	0.98	2.9
Ethanol	0.88	64	1.6	120
Acetone	0.88	27	2.1	65
2-Propanol	0.88	16	2.2	40
Methylene Chloride	0.35	0.43	1.2	1.5
Hexane	0.18	0.31	0.62	1.1

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

Client Sample ID: U1 (162950)

Lab ID#: 1608268-03A

2-Butanone (Methyl Ethyl Ketone)	0.88	1.3	2.6	3.8
1,2-Dichloroethane	0.18	0.97	0.71	3.9
Heptane	0.18	0.21	0.72	0.85
Trichloroethene	0.18	0.30	0.94	1.6
<u>4-Methyl-2-pentanone</u>	<u>0.18</u>	<u>0.25</u>	<u>0.72</u>	<u>1.0</u>
Toluene	0.18	1.8	0.66	7.0
Ethyl Benzene	0.18	0.26	0.76	1.1
m,p-Xylene	0.18	0.60	0.76	2.6
o-Xylene	0.18	0.23	0.76	0.99



Air Toxics

Client Sample ID: D1 (162948)

Lab ID#: 1608268-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081717	Date of Collection:	8/4/16 1:35:00 PM
Dil. Factor:	1.71	Date of Analysis:	8/17/16 10:26 PM

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	0.22	0.96	1.2
Ethanol	0.86	13	1.6	25
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	10	2.0	25
2-Propanol	0.86	1.1	2.1	2.8
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	0.31	0.60	1.1
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	1.8	2.5	5.3
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	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	0.21	0.70	0.88
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	0.41	0.64	1.5
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



Air Toxics

Client Sample ID: D1 (162948)

Lab ID#: 1608268-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081717	Date of Collection:	8/4/16 1:35:00 PM
Dil. Factor:	1.71	Date of Analysis:	8/17/16 10:26 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	0.79	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	110	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: D2 (162949)

Lab ID#: 1608268-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081718	Date of Collection:	8/4/16 1:40:00 PM
Dil. Factor:	1.71	Date of Analysis:	8/17/16 11:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
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	0.25	0.96	1.4
Ethanol	0.86	7.8	1.6	15
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	9.4	2.0	22
2-Propanol	0.86	Not Detected	2.1	Not Detected
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	0.18	0.60	0.64
1,1-Dichloroethane	0.17	Not Detected	0.69	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	0.83	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	Not Detected	0.55	Not Detected
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	0.31	0.64	1.2
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



Air Toxics

Client Sample ID: D2 (162949)

Lab ID#: 1608268-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081718	Date of Collection:	8/4/16 1:40:00 PM
Dil. Factor:	1.71	Date of Analysis:	8/17/16 11:09 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	0.79	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	113	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: U1 (162950)

Lab ID#: 1608268-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081809	Date of Collection:	8/4/16 1:25:00 PM
Dil. Factor:	1.75	Date of Analysis:	8/18/16 01:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.86	2.2
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	0.52	0.98	2.9
Ethanol	0.88	64	1.6	120
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	27	2.1	65
2-Propanol	0.88	16	2.2	40
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	0.43	1.2	1.5
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Hexane	0.18	0.31	0.62	1.1
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	1.3	2.6	3.8
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.95	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	0.97	0.71	3.9
Heptane	0.18	0.21	0.72	0.85
Trichloroethene	0.18	0.30	0.94	1.6
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	0.79	Not Detected
4-Methyl-2-pentanone	0.18	0.25	0.72	1.0
Toluene	0.18	1.8	0.66	7.0
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.95	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: U1 (162950)

Lab ID#: 1608268-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081809	Date of Collection:	8/4/16 1:25:00 PM
Dil. Factor:	1.75	Date of Analysis:	8/18/16 01:52 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	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Ethyl Benzene	0.18	0.26	0.76	1.1
m,p-Xylene	0.18	0.60	0.76	2.6
o-Xylene	0.18	0.23	0.76	0.99
Styrene	0.18	Not Detected	0.74	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	0.90	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	9.3	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1608268-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081709	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/17/16 01:49 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#: 1608268-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081709	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 01:49 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	111	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1608268-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081807	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/18/16 12:31 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#: 1608268-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081807	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/18/16 12:31 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	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1608268-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 09:21 AM

Compound	%Recovery
Freon 12	112
Freon 114	110
Chloromethane	97
Vinyl Chloride	97
1,3-Butadiene	92
Bromomethane	105
Chloroethane	120
Freon 11	122
Ethanol	124
Freon 113	104
1,1-Dichloroethene	103
Acetone	100
2-Propanol	98
Carbon Disulfide	102
3-Chloropropene	148 Q
Methylene Chloride	99
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	103
Hexane	93
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	103
Tetrahydrofuran	77
Chloroform	108
1,1,1-Trichloroethane	109
Cyclohexane	108
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	102
Benzene	106
1,2-Dichloroethane	118
Heptane	104
Trichloroethene	117
1,2-Dichloropropane	101
1,4-Dioxane	108
Bromodichloromethane	120
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	110
Toluene	108
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	105
Tetrachloroethene	122
2-Hexanone	100



Air Toxics

Client Sample ID: CCV

Lab ID#: 1608268-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 09:21 AM

Compound	%Recovery
Dibromochloromethane	118
1,2-Dibromoethane (EDB)	112
Chlorobenzene	112
Ethyl Benzene	111
m,p-Xylene	116
o-Xylene	117
Styrene	122
Bromoform	124
Cumene	107
1,1,2,2-Tetrachloroethane	89
Propylbenzene	97
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1608268-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 09:31 AM

Compound	%Recovery
Freon 12	114
Freon 114	116
Chloromethane	97
Vinyl Chloride	98
1,3-Butadiene	101
Bromomethane	102
Chloroethane	124
Freon 11	122
Ethanol	127
Freon 113	104
1,1-Dichloroethene	108
Acetone	90
2-Propanol	103
Carbon Disulfide	101
3-Chloropropene	145 Q
Methylene Chloride	104
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	114
Hexane	100
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	104
Tetrahydrofuran	82
Chloroform	108
1,1,1-Trichloroethane	109
Cyclohexane	106
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	102
Benzene	103
1,2-Dichloroethane	117
Heptane	104
Trichloroethene	110
1,2-Dichloropropane	104
1,4-Dioxane	108
Bromodichloromethane	113
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	105
Toluene	108
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	104
Tetrachloroethene	119
2-Hexanone	106



Air Toxics

Client Sample ID: CCV

Lab ID#: 1608268-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 09:31 AM

Compound	%Recovery
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	116
Chlorobenzene	114
Ethyl Benzene	118
m,p-Xylene	117
o-Xylene	118
Styrene	118
Bromoform	120
Cumene	107
1,1,2,2-Tetrachloroethane	88
Propylbenzene	99
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	79
Hexachlorobutadiene	78

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1608268-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 10:06 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	97	70-130
Chloromethane	80	70-130
Vinyl Chloride	80	70-130
1,3-Butadiene	82	70-130
Bromomethane	97	70-130
Chloroethane	110	70-130
Freon 11	106	70-130
Ethanol	92	70-130
Freon 113	83	70-130
1,1-Dichloroethene	87	70-130
Acetone	83	70-130
2-Propanol	84	70-130
Carbon Disulfide	78	70-130
3-Chloropropene	112	70-130
Methylene Chloride	78	70-130
Methyl tert-butyl ether	81	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	83	70-130
1,1-Dichloroethane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	83	70-130
cis-1,2-Dichloroethene	81	70-130
Tetrahydrofuran	63 Q	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	85	70-130
2,2,4-Trimethylpentane	82	70-130
Benzene	82	70-130
1,2-Dichloroethane	93	70-130
Heptane	80	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	81	70-130
1,4-Dioxane	84	70-130
Bromodichloromethane	95	70-130
cis-1,3-Dichloropropene	77	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	87	70-130
trans-1,3-Dichloropropene	84	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	96	70-130
2-Hexanone	80	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1608268-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 10:06 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	94	70-130
1,2-Dibromoethane (EDB)	91	70-130
Chlorobenzene	90	70-130
Ethyl Benzene	89	70-130
m,p-Xylene	90	70-130
o-Xylene	94	70-130
Styrene	93	70-130
Bromoform	97	70-130
Cumene	84	70-130
1,1,2,2-Tetrachloroethane	69 Q	70-130
Propylbenzene	79	70-130
4-Ethyltoluene	82	70-130
1,3,5-Trimethylbenzene	73	70-130
1,2,4-Trimethylbenzene	68 Q	70-130
1,3-Dichlorobenzene	74	70-130
1,4-Dichlorobenzene	78	70-130
alpha-Chlorotoluene	75	70-130
1,2-Dichlorobenzene	82	70-130
1,2,4-Trichlorobenzene	101	70-130
Hexachlorobutadiene	107	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	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1608268-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 10:49 AM

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	89	70-130
Chloromethane	74	70-130
Vinyl Chloride	78	70-130
1,3-Butadiene	75	70-130
Bromomethane	90	70-130
Chloroethane	96	70-130
Freon 11	98	70-130
Ethanol	84	70-130
Freon 113	78	70-130
1,1-Dichloroethene	79	70-130
Acetone	68 Q	70-130
2-Propanol	77	70-130
Carbon Disulfide	69 Q	70-130
3-Chloropropene	99	70-130
Methylene Chloride	78	70-130
Methyl tert-butyl ether	77	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	76	70-130
1,1-Dichloroethane	80	70-130
2-Butanone (Methyl Ethyl Ketone)	78	70-130
cis-1,2-Dichloroethene	80	70-130
Tetrahydrofuran	58 Q	70-130
Chloroform	83	70-130
1,1,1-Trichloroethane	83	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	79	70-130
2,2,4-Trimethylpentane	79	70-130
Benzene	82	70-130
1,2-Dichloroethane	92	70-130
Heptane	79	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	75	70-130
1,4-Dioxane	84	70-130
Bromodichloromethane	92	70-130
cis-1,3-Dichloropropene	77	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	86	70-130
trans-1,3-Dichloropropene	86	70-130
1,1,2-Trichloroethane	82	70-130
Tetrachloroethene	95	70-130
2-Hexanone	84	70-130

Client Sample ID: LCSD

Lab ID#: 1608268-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/16 10:49 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	95	70-130
1,2-Dibromoethane (EDB)	88	70-130
Chlorobenzene	88	70-130
Ethyl Benzene	88	70-130
m,p-Xylene	92	70-130
o-Xylene	92	70-130
Styrene	92	70-130
Bromoform	96	70-130
Cumene	87	70-130
1,1,2,2-Tetrachloroethane	70	70-130
Propylbenzene	81	70-130
4-Ethyltoluene	81	70-130
1,3,5-Trimethylbenzene	71	70-130
1,2,4-Trimethylbenzene	67 Q	70-130
1,3-Dichlorobenzene	75	70-130
1,4-Dichlorobenzene	78	70-130
alpha-Chlorotoluene	79	70-130
1,2-Dichlorobenzene	79	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	98	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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



Air Toxics

Client Sample ID: LCS

Lab ID#: 1608268-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 10:15 AM

Compound	%Recovery	Method Limits
Freon 12	91	70-130
Freon 114	94	70-130
Chloromethane	74	70-130
Vinyl Chloride	81	70-130
1,3-Butadiene	83	70-130
Bromomethane	94	70-130
Chloroethane	99	70-130
Freon 11	101	70-130
Ethanol	88	70-130
Freon 113	81	70-130
1,1-Dichloroethene	82	70-130
Acetone	76	70-130
2-Propanol	82	70-130
Carbon Disulfide	73	70-130
3-Chloropropene	106	70-130
Methylene Chloride	80	70-130
Methyl tert-butyl ether	81	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	79	70-130
1,1-Dichloroethane	79	70-130
2-Butanone (Methyl Ethyl Ketone)	83	70-130
cis-1,2-Dichloroethene	80	70-130
Tetrahydrofuran	60 Q	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	86	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	82	70-130
2,2,4-Trimethylpentane	79	70-130
Benzene	79	70-130
1,2-Dichloroethane	88	70-130
Heptane	77	70-130
Trichloroethene	91	70-130
1,2-Dichloropropane	78	70-130
1,4-Dioxane	82	70-130
Bromodichloromethane	92	70-130
cis-1,3-Dichloropropene	75	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	84	70-130
trans-1,3-Dichloropropene	85	70-130
1,1,2-Trichloroethane	82	70-130
Tetrachloroethene	94	70-130
2-Hexanone	78	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1608268-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 10:15 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	90	70-130
1,2-Dibromoethane (EDB)	85	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	90	70-130
m,p-Xylene	94	70-130
o-Xylene	90	70-130
Styrene	89	70-130
Bromoform	93	70-130
Cumene	82	70-130
1,1,2,2-Tetrachloroethane	69 Q	70-130
Propylbenzene	76	70-130
4-Ethyltoluene	79	70-130
1,3,5-Trimethylbenzene	69 Q	70-130
1,2,4-Trimethylbenzene	65 Q	70-130
1,3-Dichlorobenzene	70	70-130
1,4-Dichlorobenzene	75	70-130
alpha-Chlorotoluene	76	70-130
1,2-Dichlorobenzene	78	70-130
1,2,4-Trichlorobenzene	77	70-130
Hexachlorobutadiene	83	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1608268-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 10:57 AM

Compound	%Recovery	Method Limits
Freon 12	92	70-130
Freon 114	91	70-130
Chloromethane	78	70-130
Vinyl Chloride	80	70-130
1,3-Butadiene	77	70-130
Bromomethane	94	70-130
Chloroethane	104	70-130
Freon 11	100	70-130
Ethanol	88	70-130
Freon 113	81	70-130
1,1-Dichloroethene	82	70-130
Acetone	76	70-130
2-Propanol	81	70-130
Carbon Disulfide	71	70-130
3-Chloropropene	102	70-130
Methylene Chloride	77	70-130
Methyl tert-butyl ether	80	70-130
trans-1,2-Dichloroethene	89	70-130
Hexane	75	70-130
1,1-Dichloroethane	80	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
cis-1,2-Dichloroethene	82	70-130
Tetrahydrofuran	63 Q	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	86	70-130
Cyclohexane	85	70-130
Carbon Tetrachloride	80	70-130
2,2,4-Trimethylpentane	78	70-130
Benzene	77	70-130
1,2-Dichloroethane	86	70-130
Heptane	77	70-130
Trichloroethene	85	70-130
1,2-Dichloropropane	81	70-130
1,4-Dioxane	82	70-130
Bromodichloromethane	90	70-130
cis-1,3-Dichloropropene	74	70-130
4-Methyl-2-pentanone	79	70-130
Toluene	83	70-130
trans-1,3-Dichloropropene	80	70-130
1,1,2-Trichloroethane	77	70-130
Tetrachloroethene	90	70-130
2-Hexanone	79	70-130

Client Sample ID: LCSD

Lab ID#: 1608268-06BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/16 10:57 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	85	70-130
1,2-Dibromoethane (EDB)	86	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	84	70-130
m,p-Xylene	90	70-130
o-Xylene	87	70-130
Styrene	86	70-130
Bromoform	91	70-130
Cumene	81	70-130
1,1,2,2-Tetrachloroethane	66 Q	70-130
Propylbenzene	74	70-130
4-Ethyltoluene	76	70-130
1,3,5-Trimethylbenzene	69 Q	70-130
1,2,4-Trimethylbenzene	64 Q	70-130
1,3-Dichlorobenzene	68 Q	70-130
1,4-Dichlorobenzene	70	70-130
alpha-Chlorotoluene	69 Q	70-130
1,2-Dichlorobenzene	71	70-130
1,2,4-Trichlorobenzene	56 Q	70-130
Hexachlorobutadiene	59 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130