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Herrera Environmental
Bruce Carpenter
2200 Sixth Ave, Ste 1100
Seattle, Washington 98121

RE: Sudbury Rd LF
Lab ID: 1205120

May 30, 2012

Attention Bruce Carpenter:

Fremont Analytical, Inc. received 3 sample(s) on 5/22/2012 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Dee".

Michael Dee
Sr. Chemist / Principal



Date: 05/30/2012

CLIENT: Herrera Environmental
Project: Sudbury Rd LF
Lab Order: 1205120

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1205120-001	GW-5	05/13/2012 10:38 AM	05/22/2012 2:35 PM
1205120-002	GW-6	05/09/2012 5:10 PM	05/22/2012 2:35 PM
1205120-003	GW-11	05/11/2012 3:27 PM	05/22/2012 2:35 PM

CLIENT: Herrera Environmental

Project: Sudbury Rd LF

I. SAMPLE RECEIPT:

All samples were received intact.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry"). Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Analytical Comments for METHOD A-TO15-VOC, SAMPLE 1205120-001A, Batch ID 2492: S - Outlying Surrogate recovery were associated with this sample. High concentration of analytes in the sample. The method is in control as indicated by the LCS.



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-5

Date Sampled: 5/13/2012

Lab ID: 1205120-001A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				

Volatile Organic Compounds by EPA Method TO-15

1,1,1-Trichloroethane	<0.114	<0.623	0.114		TO-15	05/24/2012 EM
1,1,2,2-Tetrachloroethane	<0.155	<1.06	0.155		TO-15	05/24/2012 EM
CFC-113	<0.681	<5.22	0.681		TO-15	05/24/2012 EM
1,1,2-Trichloroethane (TCA)	<0.315	<1.72	0.315		TO-15	05/24/2012 EM
1,1-Dichloroethane	13.6	55.0	0.154		TO-15	05/24/2012 EM
1,1-Dichloroethene (DCE)	121	480	0.143		TO-15	05/24/2012 EM
1,2,4-Trichlorobenzene	1.28	9.50	0.154		TO-15	05/24/2012 EM
1,2,4-Trimethylbenzene	237	1,160	0.158		TO-15	05/24/2012 EM
1,2-Dibromoethane (EDB)	<0.309	<2.38	0.309		TO-15	05/24/2012 EM
1,2-Dichlorobenzene	<0.154	<0.925	0.154		TO-15	05/24/2012 EM
1,2-Dichloroethane	5.60	22.7	0.117		TO-15	05/24/2012 EM
1,2-Dichloropropane	9.92	45.8	0.593		TO-15	05/24/2012 EM
1,3,5-Trimethylbenzene	142	699	0.150		TO-15	05/24/2012 EM
1,3-Butadiene	<0.210	<0.465	0.210		TO-15	05/24/2012 EM
1,3-Dichlorobenzene	<0.153	<0.918	0.153		TO-15	05/24/2012 EM
1,4-Dichlorobenzene	7.68	46.2	0.209		TO-15	05/24/2012 EM
1,4-Dioxane	<0.207	<0.746	0.207		TO-15	05/24/2012 EM
(MEK) 2-Butanone	<0.590	<1.74	0.590		TO-15	05/24/2012 EM
2-Hexanone	<0.185	<0.757	0.185		TO-15	05/24/2012 EM
Isopropyl Alcohol	415	1,020	0.142		TO-15	05/24/2012 EM
4-Methyl-2-pentanone (MIBK)	729	2,990	0.237		TO-15	05/24/2012 EM
Acetone	573	1,360	0.396		TO-15	05/24/2012 EM
Acrolein	<0.652	<1.49	0.652		TO-15	05/24/2012 EM
Benzene	466	1,490	0.169		TO-15	05/24/2012 EM
Benzyl chloride	<0.221	<1.14	0.221		TO-15	05/24/2012 EM
Dichlorobromomethane	<0.201	<1.35	0.201		TO-15	05/24/2012 EM
Bromoform	<0.0838	<0.867	0.0838		TO-15	05/24/2012 EM
Bromomethane	<0.216	<0.837	0.216		TO-15	05/24/2012 EM
Carbon disulfide	27.7	86.2	0.150		TO-15	05/24/2012 EM
Carbon tetrachloride	<0.127	<0.799	0.127		TO-15	05/24/2012 EM
Chlorobenzene	167	768	0.108		TO-15	05/24/2012 EM
Dibromochloromethane	<0.227	<1.93	0.227		TO-15	05/24/2012 EM
Chloroethane	89.4	236	0.267		TO-15	05/24/2012 EM
Chloroform	<0.101	<0.491	0.101		TO-15	05/24/2012 EM
Chloromethane	48.2	99.5	0.294		TO-15	05/24/2012 EM
cis-1,2-Dichloroethene	2,570	10,200	0.231		TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank

D Dilution was required

E Value above quantitation range

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limits

ND Not detected at the Reporting Limit



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-5

Date Sampled: 5/13/2012

Lab ID: 1205120-001A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				
cis-1,3-dichloropropene	<0.277	<1.26	0.277		TO-15	05/24/2012 EM
Cyclohexane	319	1,100	0.109		TO-15	05/24/2012 EM
Dichlorodifluoromethane (CFC-12)	192	950	0.198		TO-15	05/24/2012 EM
Dichlorotetrafluoroethane (CFC-114)	105	731	0.218		TO-15	05/24/2012 EM
Ethyl acetate	250	902	0.138		TO-15	05/24/2012 EM
Ethylbenzene	1,970	8,550	0.205		TO-15	05/24/2012 EM
Heptane	2,710	10,900	0.374		TO-15	05/24/2012 EM
Hexachlorobutadiene	<0.186	<1.98	0.186		TO-15	05/24/2012 EM
m,p-Xylene	1,930	8,390	0.178		TO-15	05/24/2012 EM
Methyl methacrylate	<0.186	<0.760	0.186		TO-15	05/24/2012 EM
Methylene chloride	366	1,270	0.244		TO-15	05/24/2012 EM
Naphthalene	94.1	493	0.171		TO-15	05/24/2012 EM
Hexane	885	3,120	0.0944		TO-15	05/24/2012 EM
o-Xylene	1,130	4,920	0.154		TO-15	05/24/2012 EM
4-Ethyltoluene	138	680	0.206		TO-15	05/24/2012 EM
Propylene	1,550	2,660	0.301		TO-15	05/24/2012 EM
Styrene	151	645	0.149		TO-15	05/24/2012 EM
Methyl tert-butyl ether (MTBE)	5.44	19.6	0.0828		TO-15	05/24/2012 EM
Tetrachloroethene (PCE)	457	3,100	0.176		TO-15	05/24/2012 EM
Tetrahydrofuran	962	2,840	0.234		TO-15	05/24/2012 EM
Toluene	2,900	10,900	0.292		TO-15	05/24/2012 EM
trans-1,2-Dichloroethene	49.8	197	0.216		TO-15	05/24/2012 EM
trans-1,3-dichloropropene	<0.369	<1.67	0.369		TO-15	05/24/2012 EM
Trichloroethene (TCE)	408	2,190	0.140		TO-15	05/24/2012 EM
Trichlorofluoromethane (CFC-11)	45.1	254	0.231		TO-15	05/24/2012 EM
Vinyl acetate	15.4	54.1	0.480	*	TO-15	05/24/2012 EM
Vinyl chloride	325	830	0.305		TO-15	05/24/2012 EM
Surr: 4-Bromofluorobenzene	143 %Rec	--	70-130	S	TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-6

Date Sampled: 5/9/2012

Lab ID: 1205120-002A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				

Volatile Organic Compounds by EPA Method TO-15

1,1,1-Trichloroethane	24.5	134	0.114		TO-15	05/24/2012 EM
1,1,2,2-Tetrachloroethane	<0.155	<1.06	0.155		TO-15	05/24/2012 EM
CFC-113	<0.681	<5.22	0.681		TO-15	05/24/2012 EM
1,1,2-Trichloroethane (TCA)	<0.315	<1.72	0.315		TO-15	05/24/2012 EM
1,1-Dichloroethane	443	1,790	0.154		TO-15	05/24/2012 EM
1,1-Dichloroethene (DCE)	65.9	261	0.143		TO-15	05/24/2012 EM
1,2,4-Trichlorobenzene	<0.154	<1.15	0.154		TO-15	05/24/2012 EM
1,2,4-Trimethylbenzene	181	892	0.158		TO-15	05/24/2012 EM
1,2-Dibromoethane (EDB)	<0.309	<2.38	0.309		TO-15	05/24/2012 EM
1,2-Dichlorobenzene	3.20	19.2	0.154		TO-15	05/24/2012 EM
1,2-Dichloroethane	21.8	88.1	0.117		TO-15	05/24/2012 EM
1,2-Dichloropropane	42.1	194	0.593		TO-15	05/24/2012 EM
1,3,5-Trimethylbenzene	86.6	426	0.150		TO-15	05/24/2012 EM
1,3-Butadiene	<0.210	<0.465	0.210		TO-15	05/24/2012 EM
1,3-Dichlorobenzene	<0.153	<0.918	0.153		TO-15	05/24/2012 EM
1,4-Dichlorobenzene	42.9	258	0.209		TO-15	05/24/2012 EM
1,4-Dioxane	<0.207	<0.746	0.207		TO-15	05/24/2012 EM
(MEK) 2-Butanone	<0.590	<1.74	0.590		TO-15	05/24/2012 EM
2-Hexanone	196	804	0.185		TO-15	05/24/2012 EM
Isopropyl Alcohol	31.2	76.7	0.142		TO-15	05/24/2012 EM
4-Methyl-2-pentanone (MIBK)	<0.237	<0.971	0.237		TO-15	05/24/2012 EM
Acetone	325	772	0.396		TO-15	05/24/2012 EM
Acrolein	<0.652	<1.49	0.652		TO-15	05/24/2012 EM
Benzene	544	1,740	0.169		TO-15	05/24/2012 EM
Benzyl chloride	<0.221	<1.14	0.221		TO-15	05/24/2012 EM
Dichlorobromomethane	20.3	136	0.201		TO-15	05/24/2012 EM
Bromoform	<0.0838	<0.867	0.0838		TO-15	05/24/2012 EM
Bromomethane	<0.216	<0.837	0.216		TO-15	05/24/2012 EM
Carbon disulfide	20.0	62.3	0.150		TO-15	05/24/2012 EM
Carbon tetrachloride	<0.127	<0.799	0.127		TO-15	05/24/2012 EM
Chlorobenzene	<0.108	<0.497	0.108		TO-15	05/24/2012 EM
Dibromochloromethane	<0.227	<1.93	0.227		TO-15	05/24/2012 EM
Chloroethane	298	785	0.267		TO-15	05/24/2012 EM
Chloroform	<0.101	<0.491	0.101		TO-15	05/24/2012 EM
Chloromethane	29.9	61.8	0.294		TO-15	05/24/2012 EM
cis-1,2-Dichloroethene	3,140	12,500	0.231		TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-6

Date Sampled: 5/9/2012

Lab ID: 1205120-002A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				
cis-1,3-dichloropropene	<0.277	<1.26	0.277		TO-15	05/24/2012 EM
Cyclohexane	433	1,490	0.109		TO-15	05/24/2012 EM
Dichlorodifluoromethane (CFC-12)	1,210	5,980	0.198		TO-15	05/24/2012 EM
Dichlorotetrafluoroethane (CFC-114)	213	1,490	0.218		TO-15	05/24/2012 EM
Ethyl acetate	168	606	0.138		TO-15	05/24/2012 EM
Ethylbenzene	988	4,290	0.205		TO-15	05/24/2012 EM
Heptane	1,870	7,510	0.374		TO-15	05/24/2012 EM
Hexachlorobutadiene	<0.186	<1.98	0.186		TO-15	05/24/2012 EM
m,p-Xylene	1,240	5,400	0.178		TO-15	05/24/2012 EM
Methyl methacrylate	7.04	28.8	0.186		TO-15	05/24/2012 EM
Methylene chloride	<0.244	<0.848	0.244		TO-15	05/24/2012 EM
Naphthalene	10.7	56.2	0.171		TO-15	05/24/2012 EM
Hexane	1,360	4,800	0.0944		TO-15	05/24/2012 EM
o-Xylene	709	3,080	0.154		TO-15	05/24/2012 EM
4-Ethyltoluene	126	619	0.206		TO-15	05/24/2012 EM
Propylene	2,250	3,880	0.301		TO-15	05/24/2012 EM
Styrene	102	436	0.149		TO-15	05/24/2012 EM
Methyl tert-butyl ether (MTBE)	12.8	46.1	0.0828		TO-15	05/24/2012 EM
Tetrachloroethene (PCE)	2,510	17,000	0.176		TO-15	05/24/2012 EM
Tetrahydrofuran	201	592	0.234		TO-15	05/24/2012 EM
Toluene	5,290	19,900	0.292		TO-15	05/24/2012 EM
trans-1,2-Dichloroethene	157	624	0.216		TO-15	05/24/2012 EM
trans-1,3-dichloropropene	<0.369	<1.67	0.369		TO-15	05/24/2012 EM
Trichloroethene (TCE)	1,280	6,870	0.140		TO-15	05/24/2012 EM
Trichlorofluoromethane (CFC-11)	96.8	544	0.231		TO-15	05/24/2012 EM
Vinyl acetate	25.1	88.4	0.480	*	TO-15	05/24/2012 EM
Vinyl chloride	650	1,660	0.305		TO-15	05/24/2012 EM
Surr: 4-Bromofluorobenzene	126 %Rec	--	70-130		TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-11

Date Sampled: 5/11/2012

Lab ID: 1205120-003A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				

Volatile Organic Compounds by EPA Method TO-15

1,1,1-Trichloroethane	<0.114	<0.623	0.114		TO-15	05/24/2012 EM
1,1,2,2-Tetrachloroethane	<0.155	<1.06	0.155		TO-15	05/24/2012 EM
CFC-113	<0.681	<5.22	0.681		TO-15	05/24/2012 EM
1,1,2-Trichloroethane (TCA)	<0.315	<1.72	0.315		TO-15	05/24/2012 EM
1,1-Dichloroethane	802	3,250	0.154		TO-15	05/24/2012 EM
1,1-Dichloroethene (DCE)	94.4	374	0.143		TO-15	05/24/2012 EM
1,2,4-Trichlorobenzene	<0.154	<1.15	0.154		TO-15	05/24/2012 EM
1,2,4-Trimethylbenzene	240	1,180	0.158		TO-15	05/24/2012 EM
1,2-Dibromoethane (EDB)	<0.309	<2.38	0.309		TO-15	05/24/2012 EM
1,2-Dichlorobenzene	0.960	5.77	0.154		TO-15	05/24/2012 EM
1,2-Dichloroethane	23.5	95.2	0.117		TO-15	05/24/2012 EM
1,2-Dichloropropane	43.0	199	0.593		TO-15	05/24/2012 EM
1,3,5-Trimethylbenzene	126	618	0.150		TO-15	05/24/2012 EM
1,3-Butadiene	<0.210	<0.465	0.210		TO-15	05/24/2012 EM
1,3-Dichlorobenzene	<0.153	<0.918	0.153		TO-15	05/24/2012 EM
1,4-Dichlorobenzene	31.0	187	0.209		TO-15	05/24/2012 EM
1,4-Dioxane	<0.207	<0.746	0.207		TO-15	05/24/2012 EM
(MEK) 2-Butanone	<0.590	<1.74	0.590		TO-15	05/24/2012 EM
2-Hexanone	<0.185	<0.757	0.185		TO-15	05/24/2012 EM
Isopropyl Alcohol	163	400	0.142		TO-15	05/24/2012 EM
4-Methyl-2-pentanone (MIBK)	<0.237	<0.971	0.237		TO-15	05/24/2012 EM
Acetone	357	849	0.396		TO-15	05/24/2012 EM
Acrolein	21.6	49.6	0.652		TO-15	05/24/2012 EM
Benzene	382	1,220	0.169		TO-15	05/24/2012 EM
Benzyl chloride	<0.221	<1.14	0.221		TO-15	05/24/2012 EM
Dichlorobromomethane	<0.201	<1.35	0.201		TO-15	05/24/2012 EM
Bromoform	<0.0838	<0.867	0.0838		TO-15	05/24/2012 EM
Bromomethane	<0.216	<0.837	0.216		TO-15	05/24/2012 EM
Carbon disulfide	<0.150	<0.467	0.150		TO-15	05/24/2012 EM
Carbon tetrachloride	<0.127	<0.799	0.127		TO-15	05/24/2012 EM
Chlorobenzene	<0.108	<0.497	0.108		TO-15	05/24/2012 EM
Dibromochloromethane	<0.227	<1.93	0.227		TO-15	05/24/2012 EM
Chloroethane	73.6	194	0.267		TO-15	05/24/2012 EM
Chloroform	<0.101	<0.491	0.101		TO-15	05/24/2012 EM
Chloromethane	44.2	91.2	0.294		TO-15	05/24/2012 EM
cis-1,2-Dichloroethene	1,090	4,300	0.231		TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit



Client: Herrera Environmental

WorkOrder: 1205120

Project: Sudbury Rd LF

Client Sample ID: GW-11

Date Sampled: 5/11/2012

Lab ID: 1205120-003A

Date Received: 5/22/2012

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit (ppbv)	Qual	Test Method	Date Analyzed /Analyst
	(ppbv)	(ug/m ³)				
cis-1,3-dichloropropene	<0.277	<1.26	0.277		TO-15	05/24/2012 EM
Cyclohexane	728	2,510	0.109		TO-15	05/24/2012 EM
Dichlorodifluoromethane (CFC-12)	2,510	12,400	0.198		TO-15	05/24/2012 EM
Dichlorotetrafluoroethane (CFC-114)	1,090	7,600	0.218		TO-15	05/24/2012 EM
Ethyl acetate	140	503	0.138		TO-15	05/24/2012 EM
Ethylbenzene	1,310	5,670	0.205		TO-15	05/24/2012 EM
Heptane	2,580	10,400	0.374		TO-15	05/24/2012 EM
Hexachlorobutadiene	<0.186	<1.98	0.186		TO-15	05/24/2012 EM
m,p-Xylene	1,240	5,400	0.178		TO-15	05/24/2012 EM
Methyl methacrylate	2.56	10.5	0.186		TO-15	05/24/2012 EM
Methylene chloride	<0.244	<0.848	0.244		TO-15	05/24/2012 EM
Naphthalene	<0.171	<0.898	0.171		TO-15	05/24/2012 EM
Hexane	2,690	9,490	0.0944		TO-15	05/24/2012 EM
o-Xylene	703	3,050	0.154		TO-15	05/24/2012 EM
4-Ethyltoluene	200	981	0.206		TO-15	05/24/2012 EM
Propylene	12,500	21,500	0.301		TO-15	05/24/2012 EM
Styrene	186	793	0.149		TO-15	05/24/2012 EM
Methyl tert-butyl ether (MTBE)	8.32	30.0	0.0828		TO-15	05/24/2012 EM
Tetrachloroethene (PCE)	1,340	9,110	0.176		TO-15	05/24/2012 EM
Tetrahydrofuran	643	1,900	0.234		TO-15	05/24/2012 EM
Toluene	4,560	17,200	0.292		TO-15	05/24/2012 EM
trans-1,2-Dichloroethene	178	704	0.216		TO-15	05/24/2012 EM
trans-1,3-dichloropropene	<0.369	<1.67	0.369		TO-15	05/24/2012 EM
Trichloroethene (TCE)	1,160	6,250	0.140		TO-15	05/24/2012 EM
Trichlorofluoromethane (CFC-11)	521	2,930	0.231		TO-15	05/24/2012 EM
Vinyl acetate	42.7	150	0.480	*	TO-15	05/24/2012 EM
Vinyl chloride	1,390	3,560	0.305		TO-15	05/24/2012 EM
Surr: 4-Bromofluorobenzene	126 %Rec	--	70-130		TO-15	05/24/2012 EM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit



Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method TO-15

Sample ID: MBLK-2492	SampType: MBLK	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: MBLKW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80173

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.301									
Dichlorodifluoromethane (CFC-12)	ND	0.198									
Chloromethane	ND	0.294									
Dichlorotetrafluoroethane (CFC-114)	ND	0.218									
Vinyl chloride	ND	0.305									
1,3-Butadiene	ND	0.210									
Bromomethane	ND	0.216									
Trichlorofluoromethane (CFC-11)	ND	0.231									
Chloroethane	ND	0.267									
Acrolein	ND	0.652									
1,1-Dichloroethene (DCE)	ND	0.143									
Acetone	ND	0.396									
Isopropyl Alcohol	ND	0.142									
Methylene chloride	ND	0.244									
Carbon disulfide	ND	0.150									
trans-1,2-Dichloroethene	ND	0.216									
Methyl tert-butyl ether (MTBE)	ND	0.0828									
Hexane	ND	0.0944									
1,1-Dichloroethane	ND	0.154									
Vinyl acetate	ND	0.480									*
cis-1,2-Dichloroethene	ND	0.231									
(MEK) 2-Butanone	ND	0.590									
Ethyl acetate	ND	0.138									
Chloroform	ND	0.101									
Tetrahydrofuran	ND	0.234									
1,1,1-Trichloroethane	ND	0.114									
Carbon tetrachloride	ND	0.127									

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method TO-15

Sample ID: MBLK-2492	SampType: MBLK	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: MBLKW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80173

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	ND	0.117									
Benzene	ND	0.169									
Cyclohexane	ND	0.109									
Trichloroethene (TCE)	ND	0.140									
1,2-Dichloropropane	ND	0.593									
Methyl methacrylate	ND	0.186									
Dichlorobromomethane	ND	0.201									
1,4-Dioxane	ND	0.207									
cis-1,3-dichloropropene	ND	0.277									
Toluene	ND	0.292									
trans-1,3-dichloropropene	ND	0.369									
1,1,2-Trichloroethane (TCA)	ND	0.315									
Tetrachloroethene (PCE)	ND	0.176									
Dibromochloromethane	ND	0.227									
1,2-Dibromoethane (EDB)	ND	0.309									
Chlorobenzene	ND	0.108									
Ethylbenzene	ND	0.205									
m,p-Xylene	ND	0.178									
o-Xylene	ND	0.154									
Styrene	ND	0.149									
Bromoform	ND	0.0838									
1,1,1,2-Tetrachloroethane	ND	0.155									
1,3,5-Trimethylbenzene	ND	0.150									
1,2,4-Trimethylbenzene	ND	0.158									
Benzyl chloride	ND	0.221									
4-Ethyltoluene	ND	0.206									
1,3-Dichlorobenzene	ND	0.153									

Qualifiers: B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method TO-15

Sample ID: MBLK-2492	SampType: MBLK	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: MBLKW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80173

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.209									
1,2-Dichlorobenzene	ND	0.154									
1,2,4-Trichlorobenzene	ND	0.154									
Hexachlorobutadiene	ND	0.186									
Naphthalene	ND	0.171									
2-Hexanone	ND	0.185									
4-Methyl-2-pentanone (MIBK)	ND	0.237									
CFC-113	ND	0.681									
Heptane	ND	0.374									
Surr: 4-Bromofluorobenzene	4.83		5.000		96.6	70	130				

Sample ID: LCS-2492	SampType: LCS	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: LCSW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80174

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	1.01	0.301	1.000	0	101	70	130				
Dichlorodifluoromethane (CFC-12)	0.980	0.198	1.000	0	98.0	70	130				
Chloromethane	0.980	0.294	1.000	0	98.0	70	130				
Dichlorotetrafluoroethane (CFC-114)	1.01	0.218	1.000	0	101	70	130				
Vinyl chloride	0.920	0.305	1.000	0	92.0	70	130				
1,3-Butadiene	1.13	0.210	1.000	0	113	70	130				
Bromomethane	0.900	0.216	1.000	0	90.0	70	130				
Trichlorofluoromethane (CFC-11)	1.03	0.231	1.000	0	103	70	130				
Chloroethane	0.730	0.267	1.000	0	73.0	70	130				
Acrolein	1.04	0.652	1.000	0	104	70	130				
1,1-Dichloroethene (DCE)	0.960	0.143	1.000	0	96.0	70	130				

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method TO-15

Sample ID: LCS-2492	SampType: LCS	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: LCSW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80174

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.16	0.396	1.000	0	116	70	130				
Isopropyl Alcohol	1.06	0.142	1.000	0	106	70	130				
Methylene chloride	1.13	0.244	1.000	0	113	70	130				
Carbon disulfide	1.22	0.150	1.000	0	122	70	130				
trans-1,2-Dichloroethene	1.09	0.216	1.000	0	109	70	130				
Methyl tert-butyl ether (MTBE)	1.08	0.0828	1.000	0	108	70	130				
Hexane	0.900	0.0944	1.000	0	90.0	70	130				
1,1-Dichloroethane	0.920	0.154	1.000	0	92.0	70	130				
Vinyl acetate	1.31	0.480	1.000	0	131	70	130				S
cis-1,2-Dichloroethene	0.850	0.231	1.000	0	85.0	70	130				
(MEK) 2-Butanone	0.960	0.590	1.000	0	96.0	70	130				
Ethyl acetate	0.920	0.138	1.000	0	92.0	70	130				
Chloroform	0.880	0.101	1.000	0	88.0	70	130				
Tetrahydrofuran	0.990	0.234	1.000	0	99.0	70	130				
1,1,1-Trichloroethane	0.920	0.114	1.000	0	92.0	70	130				
Carbon tetrachloride	0.920	0.127	1.000	0	92.0	70	130				
1,2-Dichloroethane	1.00	0.117	1.000	0	100	70	130				
Benzene	0.970	0.169	1.000	0	97.0	70	130				
Cyclohexane	1.03	0.109	1.000	0	103	70	130				
Trichloroethene (TCE)	0.920	0.140	1.000	0	92.0	70	130				
1,2-Dichloropropane	0.930	0.593	1.000	0	93.0	70	130				
Methyl methacrylate	0.930	0.186	1.000	0	93.0	70	130				
Dichlorobromomethane	0.820	0.201	1.000	0	82.0	70	130				
1,4-Dioxane	0.920	0.207	1.000	0	92.0	70	130				
cis-1,3-dichloropropene	0.900	0.277	1.000	0	90.0	70	130				
Toluene	1.03	0.292	1.000	0	103	70	130				
trans-1,3-dichloropropene	0.900	0.369	1.000	0	90.0	70	130				

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method TO-15

Sample ID: LCS-2492	SampType: LCS	Units: ppbv	Prep Date: 5/24/2012	RunNo: 4411
Client ID: LCSW	Batch ID: 2492		Analysis Date: 5/24/2012	SeqNo: 80174

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane (TCA)	0.970	0.315	1.000	0	97.0	70	130				
Tetrachloroethene (PCE)	0.830	0.176	1.000	0	83.0	70	130				
Dibromochloromethane	0.940	0.227	1.000	0	94.0	70	130				
1,2-Dibromoethane (EDB)	0.920	0.309	1.000	0	92.0	70	130				
Chlorobenzene	0.800	0.108	1.000	0	80.0	70	130				
Ethylbenzene	0.910	0.205	1.000	0	91.0	70	130				
m,p-Xylene	0.790	0.178	1.000	0	79.0	70	130				
o-Xylene	0.920	0.154	1.000	0	92.0	70	130				
Styrene	0.820	0.149	1.000	0	82.0	70	130				
Bromoform	0.860	0.0838	1.000	0	86.0	70	130				
1,1,2,2-Tetrachloroethane	1.00	0.155	1.000	0	100	70	130				
1,3,5-Trimethylbenzene	0.840	0.150	1.000	0	84.0	70	130				
1,2,4-Trimethylbenzene	0.870	0.158	1.000	0	87.0	70	130				
Benzyl chloride	0.780	0.221	1.000	0	78.0	70	130				
4-Ethyltoluene	0.930	0.206	1.000	0	93.0	70	130				
1,3-Dichlorobenzene	0.930	0.153	1.000	0	93.0	70	130				
1,4-Dichlorobenzene	0.710	0.209	1.000	0	71.0	70	130				
1,2-Dichlorobenzene	0.760	0.154	1.000	0	76.0	70	130				
1,2,4-Trichlorobenzene	0.750	0.154	1.000	0	75.0	70	130				
Hexachlorobutadiene	0.890	0.186	1.000	0	89.0	70	130				
Naphthalene	0.880	0.171	1.000	0	88.0	70	130				
2-Hexanone	0.850	0.185	1.000	0	85.0	70	130				
4-Methyl-2-pentanone (MIBK)	0.840	0.237	1.000	0	84.0	70	130				
CFC-113	1.09	0.681	1.000	0	109	70	130				
Heptane	0.870	0.374	1.000	0	87.0	70	130				
Surr: 4-Bromofluorobenzene	4.46		5.000		89.2	70	130				

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



Date: 5/30/2012

Work Order: 1205120
CLIENT: Herrera Environmental
Project: Sudbury Rd LF

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

NOTES:

S - Outlying spike recovery observed. Corresponding analyte in samples noted with a *

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **HERRERA**
 Logged by: **Clare Griggs**

 Work Order Number: **1205120**
 Date Received: **5/22/2012 2:35:00 PM**
Chain of Custody

1. Were custodial seals present? Yes No Not Required
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Coolers are present? Yes No NA
- Air Sample**
5. Was an attempt made to cool the samples? Yes No NA
6. Were all coolers received at a temperature of >0° C to 10.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is there headspace present in VOA vials? Yes No NA
12. Did all sample containers arrive in good condition?(unbroken) Yes No
13. Does paperwork match bottle labels? Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks/Discrepancies

Item Information



Fremont
ANALYTICAL

1311 N. 35th Street
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Client: Herrera Environmental
Address: 2200 6th Ave Ste. 1100
City, State, Zip: Seattle, WA 98121
Reports To (PM): Bruce Carpenter

Date: 5/22/12

Project Name: Sudbury Rdl F
Location: Walla Walla, WA
Collected by: Bruce Carpenter

Laboratory Project No (Internal): 1205120

Page: 1 of: 1

Email: b.carpenter@herreraenv.com Project No: 10-04930-001/002-001

Air Chain of Custody Record

Sample Name	Canister Serial #	Sample Date	Sample Time	Indoor/Outdoor	Sample Volume	Container Type	Initial Sample Pressure	Final Sample Pressure	Analysis Requested	Receipt Date	Final (psi)
1 GW-5	34002	5/13/12	9:38:10:38	Outdoor	6L	Summa	30	6.5	VOCs TO-15		
2 GW-6	25275	5/9/12	16:11:17.0	"	6L	"	29	6	VOCs TO-15		
3 GW-11	25247	5/11/12	14:22:45.27	"	6L	"	30	8	VOCs TO-15		
4											
5											
6											
7											
8											
9											
10											

Special Remarks:

Seals Intact: Y N N/A

Relinquished Date/Time: 5/22/12 14:35 x Received Date/Time: 5/22/12 14:35

Relinquished Date/Time: 5/22/12 14:35 x Received Date/Time: 5/22/12 14:35

TAT -> STD RUSH (specify)



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Page 1 of 1

Project Manager Bruce Carpenter
 Collected by: (Print and Sign) Bruce Carpenter
 Company Heretica Environmental Email bcarpenter@heretica.com
 Address 2200 6th Ave City Seattle State WA Zip 98121
 Phone (206) 787-8217 Fax (206) 441 9108

Project Info:
 P.O. # _____
 Project # 10-04 930-001
 Project Name Sudbury Rd LF

Turn Around Time:
 Normal
 Rush
specify
 Pressurized by:
 Date:
 Pressurization Gas:
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (ps)
01A	GW-7S	14113	5/11/12	1233-1338	VOC's TO-15	30	7.5
02A	GW-7D	25257	5/11/12	1311-1411	" "	30	6
03A	GW-8	4350	5/11/12	1348-1448	" "	30	7
04A	GW-9	5673	5/11/12	1509-1609	" "	30	8
05A	GW-10	34357	5/13/12	1010-1110	" "	30	8
06A	GW-12	9566	5/11/12	1152-1258	" "	30	9

Relinquished by: (signature) [Signature] Date/Time 5/15/12 1530 Received by: (signature) [Signature] Date/Time 5/17/12 1140
 Notes: Sent via courier
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name UPS Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No Work Order # 1205345

6/25/2012

Mr. Bruce Carpenter
Herrera Environmental Consultants
2200 Sixth Avenue
Suite 1100
Seattle WA 98121

Project Name: Sudbury Rd LF

Project #: 10-04930-001

Workorder #: 1205345

Dear Mr. Bruce Carpenter

The following report includes the data for the above referenced project for sample(s) received on 5/17/2012 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,




Kelly Buettner
Project Manager

WORK ORDER #: 1205345

Work Order Summary

CLIENT:	Mr. Bruce Carpenter Herrera Environmental Consultants 2200 Sixth Avenue Suite 1100 Seattle, WA 98121	BILL TO:	Mr. Bruce Carpenter Herrera Environmental Consultants 2200 Sixth Avenue Suite 1100 Seattle, WA 98121
PHONE:	206-441-9080	P.O. #	
FAX:	206-441-9108	PROJECT #	10-04930-001 Sudbury Rd LF
DATE RECEIVED:	05/17/2012	CONTACT:	Kelly Buettner
DATE COMPLETED:	05/23/2012		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	GW-7S	Modified TO-15	8.6 "Hg	5 psi
02A	GW-7D	Modified TO-15	8.8 "Hg	5 psi
03A	GW-8	Modified TO-15	9.0 "Hg	5 psi
04A	GW-9	Modified TO-15	9.0 "Hg	5 psi
05A	GW-10	Modified TO-15	8.6 "Hg	5 psi
06A	GW-12	Modified TO-15	9.0 "Hg	5 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 05/23/12

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
 NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.

Air Toxics Ltd. 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 - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Herrera Environmental Consultants
Workorder# 1205345

Six 6 Liter Summa Canister samples were received on May 17, 2012. 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

Dilution was performed on sample GW-7S due to the presence of high level target species.

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.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

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 EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: GW-7S

Lab ID#: 1205345-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	250	6.2	1200
Freon 114	1.2	130	8.8	930
1,1-Dichloroethane	1.2	1.9	5.1	7.9
Trichloroethene	1.2	1.9	6.7	10
Tetrachloroethene	1.2	400	8.5	2700

Client Sample ID: GW-7D

Lab ID#: 1205345-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.95	2.4	4.7	12
Toluene	0.95	1.5	3.6	5.6
Tetrachloroethene	0.95	2.0	6.4	14
m,p-Xylene	0.95	1.4	4.1	6.3
1,2,4-Trimethylbenzene	0.95	1.2	4.7	5.7

Client Sample ID: GW-8

Lab ID#: 1205345-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	37	4.7	180
Freon 114	0.96	5.3	6.7	37
Freon 11	0.96	2.6	5.4	14
Toluene	0.96	1.6	3.6	6.0
m,p-Xylene	0.96	1.2	4.1	5.3
1,2,4-Trimethylbenzene	0.96	1.2	4.7	5.8

Client Sample ID: GW-9

Lab ID#: 1205345-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	85	4.7	420

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

Client Sample ID: GW-9

Lab ID#: 1205345-04A

Freon 114	0.96	21	6.7	150
Freon 11	0.96	2.8	5.4	16
Toluene	0.96	0.95 J	3.6	3.6 J
Tetrachloroethene	0.96	30	6.5	200

Client Sample ID: GW-10

Lab ID#: 1205345-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.94	57	4.6	280
Freon 114	0.94	8.4	6.6	59
Freon 11	0.94	5.6	5.3	31
1,1,1-Trichloroethane	0.94	4.4	5.1	24
Toluene	0.94	1.8	3.5	6.6
Tetrachloroethene	0.94	4.1	6.4	28
m,p-Xylene	0.94	1.0	4.1	4.3

Client Sample ID: GW-12

Lab ID#: 1205345-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.96	1.7	3.6	6.4
m,p-Xylene	0.96	1.2	4.1	5.0
1,2,4-Trimethylbenzene	0.96	1.0	4.7	4.9



Air Toxics

Client Sample ID: GW-7S

Lab ID#: 1205345-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051810	Date of Collection:	5/11/12 1:33:00 PM
Dil. Factor:	2.51	Date of Analysis:	5/18/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	250	6.2	1200
Freon 114	1.2	130	8.8	930
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.8	Not Detected
Bromomethane	12	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	1.2	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Acetone	12	Not Detected	30	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	12	Not Detected	44	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	1.9	5.1	7.9
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.7	Not Detected
Chloroform	1.2	Not Detected	6.1	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.9	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.1	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	1.9	6.7	10
1,2-Dichloropropane	1.2	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.1	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	400	8.5	2700
2-Hexanone	5.0	Not Detected	20	Not Detected



Air Toxics

Client Sample ID: GW-7S

Lab ID#: 1205345-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051810	Date of Collection:	5/11/12 1:33:00 PM
Dil. Factor:	2.51	Date of Analysis:	5/18/12 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.8	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.6	Not Detected
Propylbenzene	1.2	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: GW-7D

Lab ID#: 1205345-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051811	Date of Collection:	5/11/12 2:11:00 PM
Dil. Factor:	1.90	Date of Analysis:	5/18/12 05:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.95	2.4	4.7	12
Freon 114	0.95	Not Detected	6.6	Not Detected
Chloromethane	9.5	Not Detected	20	Not Detected
Vinyl Chloride	0.95	Not Detected	2.4	Not Detected
1,3-Butadiene	0.95	Not Detected	2.1	Not Detected
Bromomethane	9.5	Not Detected	37	Not Detected
Chloroethane	3.8	Not Detected	10	Not Detected
Freon 11	0.95	Not Detected	5.3	Not Detected
Ethanol	3.8	Not Detected	7.2	Not Detected
Freon 113	0.95	Not Detected	7.3	Not Detected
1,1-Dichloroethene	0.95	Not Detected	3.8	Not Detected
Acetone	9.5	Not Detected	22	Not Detected
2-Propanol	3.8	Not Detected	9.3	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.5	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.95	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.95	Not Detected	3.8	Not Detected
Hexane	0.95	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.95	Not Detected	3.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.95	Not Detected	3.8	Not Detected
Tetrahydrofuran	0.95	Not Detected	2.8	Not Detected
Chloroform	0.95	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.95	Not Detected	5.2	Not Detected
Cyclohexane	0.95	Not Detected	3.3	Not Detected
Carbon Tetrachloride	0.95	Not Detected	6.0	Not Detected
2,2,4-Trimethylpentane	0.95	Not Detected	4.4	Not Detected
Benzene	0.95	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.95	Not Detected	3.8	Not Detected
Heptane	0.95	Not Detected	3.9	Not Detected
Trichloroethene	0.95	Not Detected	5.1	Not Detected
1,2-Dichloropropane	0.95	Not Detected	4.4	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.95	Not Detected	6.4	Not Detected
cis-1,3-Dichloropropene	0.95	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.95	Not Detected	3.9	Not Detected
Toluene	0.95	1.5	3.6	5.6
trans-1,3-Dichloropropene	0.95	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.95	Not Detected	5.2	Not Detected
Tetrachloroethene	0.95	2.0	6.4	14
2-Hexanone	3.8	Not Detected	16	Not Detected



Air Toxics

Client Sample ID: GW-7D

Lab ID#: 1205345-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051811	Date of Collection:	5/11/12 2:11:00 PM
Dil. Factor:	1.90	Date of Analysis:	5/18/12 05:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.95	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	0.95	Not Detected	7.3	Not Detected
Chlorobenzene	0.95	Not Detected	4.4	Not Detected
Ethyl Benzene	0.95	Not Detected	4.1	Not Detected
m,p-Xylene	0.95	1.4	4.1	6.3
o-Xylene	0.95	Not Detected	4.1	Not Detected
Styrene	0.95	Not Detected	4.0	Not Detected
Bromoform	0.95	Not Detected	9.8	Not Detected
Cumene	0.95	Not Detected	4.7	Not Detected
1,1,2,2-Tetrachloroethane	0.95	Not Detected	6.5	Not Detected
Propylbenzene	0.95	Not Detected	4.7	Not Detected
4-Ethyltoluene	0.95	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.95	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.95	1.2	4.7	5.7
1,3-Dichlorobenzene	0.95	Not Detected	5.7	Not Detected
1,4-Dichlorobenzene	0.95	Not Detected	5.7	Not Detected
alpha-Chlorotoluene	0.95	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.95	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	40	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: GW-8

Lab ID#: 1205345-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051812	Date of Collection:	5/11/12 2:48:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 05:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	37	4.7	180
Freon 114	0.96	5.3	6.7	37
Chloromethane	9.6	Not Detected	20	Not Detected
Vinyl Chloride	0.96	Not Detected	2.4	Not Detected
1,3-Butadiene	0.96	Not Detected	2.1	Not Detected
Bromomethane	9.6	Not Detected	37	Not Detected
Chloroethane	3.8	Not Detected	10	Not Detected
Freon 11	0.96	2.6	5.4	14
Ethanol	3.8	Not Detected	7.2	Not Detected
Freon 113	0.96	Not Detected	7.3	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Acetone	9.6	Not Detected	23	Not Detected
2-Propanol	3.8	Not Detected	9.4	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.6	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.96	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Cyclohexane	0.96	Not Detected	3.3	Not Detected
Carbon Tetrachloride	0.96	Not Detected	6.0	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.96	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Heptane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	Not Detected	5.1	Not Detected
1,2-Dichloropropane	0.96	Not Detected	4.4	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.96	Not Detected	6.4	Not Detected
cis-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.96	Not Detected	3.9	Not Detected
Toluene	0.96	1.6	3.6	6.0
trans-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Tetrachloroethene	0.96	Not Detected	6.5	Not Detected
2-Hexanone	3.8	Not Detected	16	Not Detected



Air Toxics

Client Sample ID: GW-8

Lab ID#: 1205345-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051812	Date of Collection:	5/11/12 2:48:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 05:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.96	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	0.96	Not Detected	7.3	Not Detected
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.1	Not Detected
m,p-Xylene	0.96	1.2	4.1	5.3
o-Xylene	0.96	Not Detected	4.1	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
Bromoform	0.96	Not Detected	9.9	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
1,1,2,2-Tetrachloroethane	0.96	Not Detected	6.6	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
4-Ethyltoluene	0.96	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	1.2	4.7	5.8
1,3-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,4-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
alpha-Chlorotoluene	0.96	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	41	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: GW-9

Lab ID#: 1205345-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051813	Date of Collection:	5/11/12 4:09:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 06:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	85	4.7	420
Freon 114	0.96	21	6.7	150
Chloromethane	9.6	Not Detected	20	Not Detected
Vinyl Chloride	0.96	Not Detected	2.4	Not Detected
1,3-Butadiene	0.96	Not Detected	2.1	Not Detected
Bromomethane	9.6	Not Detected	37	Not Detected
Chloroethane	3.8	Not Detected	10	Not Detected
Freon 11	0.96	2.8	5.4	16
Ethanol	3.8	Not Detected	7.2	Not Detected
Freon 113	0.96	Not Detected	7.3	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Acetone	9.6	Not Detected	23	Not Detected
2-Propanol	3.8	Not Detected	9.4	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.6	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.96	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Cyclohexane	0.96	Not Detected	3.3	Not Detected
Carbon Tetrachloride	0.96	Not Detected	6.0	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.96	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Heptane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	Not Detected	5.1	Not Detected
1,2-Dichloropropane	0.96	Not Detected	4.4	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.96	Not Detected	6.4	Not Detected
cis-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.96	Not Detected	3.9	Not Detected
Toluene	0.96	0.95 J	3.6	3.6 J
trans-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Tetrachloroethene	0.96	30	6.5	200
2-Hexanone	3.8	Not Detected	16	Not Detected

Client Sample ID: GW-9

Lab ID#: 1205345-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051813	Date of Collection:	5/11/12 4:09:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 06:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.96	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	0.96	Not Detected	7.3	Not Detected
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.1	Not Detected
m,p-Xylene	0.96	Not Detected	4.1	Not Detected
o-Xylene	0.96	Not Detected	4.1	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
Bromoform	0.96	Not Detected	9.9	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
1,1,2,2-Tetrachloroethane	0.96	Not Detected	6.6	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
4-Ethyltoluene	0.96	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,3-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,4-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
alpha-Chlorotoluene	0.96	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	41	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: GW-10

Lab ID#: 1205345-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051814	Date of Collection:	5/13/12 11:10:00 AM
Dil. Factor:	1.88	Date of Analysis:	5/18/12 06:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.94	57	4.6	280
Freon 114	0.94	8.4	6.6	59
Chloromethane	9.4	Not Detected	19	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Bromomethane	9.4	Not Detected	36	Not Detected
Chloroethane	3.8	Not Detected	9.9	Not Detected
Freon 11	0.94	5.6	5.3	31
Ethanol	3.8	Not Detected	7.1	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Acetone	9.4	Not Detected	22	Not Detected
2-Propanol	3.8	Not Detected	9.2	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.4	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	4.4	5.1	24
Cyclohexane	0.94	Not Detected	3.2	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Heptane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
Toluene	0.94	1.8	3.5	6.6
trans-1,3-Dichloropropene	0.94	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	4.1	6.4	28
2-Hexanone	3.8	Not Detected	15	Not Detected



Air Toxics

Client Sample ID: GW-10

Lab ID#: 1205345-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051814	Date of Collection:	5/13/12 11:10:00 AM
Dil. Factor:	1.88	Date of Analysis:	5/18/12 06:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	Not Detected	4.1	Not Detected
m,p-Xylene	0.94	1.0	4.1	4.3
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	40	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: GW-12

Lab ID#: 1205345-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051815	Date of Collection:	5/11/12 12:58:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 07:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	Not Detected	4.7	Not Detected
Freon 114	0.96	Not Detected	6.7	Not Detected
Chloromethane	9.6	Not Detected	20	Not Detected
Vinyl Chloride	0.96	Not Detected	2.4	Not Detected
1,3-Butadiene	0.96	Not Detected	2.1	Not Detected
Bromomethane	9.6	Not Detected	37	Not Detected
Chloroethane	3.8	Not Detected	10	Not Detected
Freon 11	0.96	Not Detected	5.4	Not Detected
Ethanol	3.8	Not Detected	7.2	Not Detected
Freon 113	0.96	Not Detected	7.3	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Acetone	9.6	Not Detected	23	Not Detected
2-Propanol	3.8	Not Detected	9.4	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.6	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.96	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Cyclohexane	0.96	Not Detected	3.3	Not Detected
Carbon Tetrachloride	0.96	Not Detected	6.0	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.96	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Heptane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	Not Detected	5.1	Not Detected
1,2-Dichloropropane	0.96	Not Detected	4.4	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.96	Not Detected	6.4	Not Detected
cis-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
4-Methyl-2-pentanone	0.96	Not Detected	3.9	Not Detected
Toluene	0.96	1.7	3.6	6.4
trans-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Tetrachloroethene	0.96	Not Detected	6.5	Not Detected
2-Hexanone	3.8	Not Detected	16	Not Detected



Air Toxics

Client Sample ID: GW-12

Lab ID#: 1205345-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051815	Date of Collection:	5/11/12 12:58:00 PM
Dil. Factor:	1.91	Date of Analysis:	5/18/12 07:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.96	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	0.96	Not Detected	7.3	Not Detected
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.1	Not Detected
m,p-Xylene	0.96	1.2	4.1	5.0
o-Xylene	0.96	Not Detected	4.1	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
Bromoform	0.96	Not Detected	9.9	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
1,1,2,2-Tetrachloroethane	0.96	Not Detected	6.6	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
4-Ethyltoluene	0.96	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	1.0	4.7	4.9
1,3-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,4-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
alpha-Chlorotoluene	0.96	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	41	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1205345-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051808	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/18/12 02:55 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	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1205345-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051808	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/18/12 02:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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

Client Sample ID: CCV

Lab ID#: 1205345-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 11:59 AM

Compound	%Recovery
Freon 12	105
Freon 114	103
Chloromethane	105
Vinyl Chloride	101
1,3-Butadiene	101
Bromomethane	100
Chloroethane	111
Freon 11	106
Ethanol	94
Freon 113	105
1,1-Dichloroethene	97
Acetone	104
2-Propanol	94
Carbon Disulfide	100
3-Chloropropene	94
Methylene Chloride	103
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	100
Hexane	97
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	100
Tetrahydrofuran	97
Chloroform	101
1,1,1-Trichloroethane	101
Cyclohexane	98
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	98
Benzene	105
1,2-Dichloroethane	109
Heptane	106
Trichloroethene	106
1,2-Dichloropropane	98
1,4-Dioxane	96
Bromodichloromethane	107
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	103
Toluene	103
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	107
Tetrachloroethene	108
2-Hexanone	105

Client Sample ID: CCV

Lab ID#: 1205345-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 11:59 AM

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	106
Chlorobenzene	105
Ethyl Benzene	108
m,p-Xylene	107
o-Xylene	107
Styrene	106
Bromoform	108
Cumene	112
1,1,2,2-Tetrachloroethane	105
Propylbenzene	108
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1205345-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 12:30 PM

Compound	%Recovery
Freon 12	110
Freon 114	107
Chloromethane	113
Vinyl Chloride	112
1,3-Butadiene	105
Bromomethane	107
Chloroethane	100
Freon 11	106
Ethanol	84
Freon 113	107
1,1-Dichloroethene	103
Acetone	105
2-Propanol	94
Carbon Disulfide	123
3-Chloropropene	106
Methylene Chloride	100
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	112
Hexane	97
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	103
Tetrahydrofuran	96
Chloroform	104
1,1,1-Trichloroethane	105
Cyclohexane	102
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	98
Benzene	105
1,2-Dichloroethane	109
Heptane	104
Trichloroethene	108
1,2-Dichloropropane	104
1,4-Dioxane	100
Bromodichloromethane	110
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	103
Toluene	103
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	109
Tetrachloroethene	108
2-Hexanone	108

Client Sample ID: LCS

Lab ID#: 1205345-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 12:30 PM

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	109
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	109
o-Xylene	110
Styrene	110
Bromoform	104
Cumene	112
1,1,2,2-Tetrachloroethane	107
Propylbenzene	108
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	106

Container Type: NA - Not Applicable

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

Client Sample ID: LCSD

Lab ID#: 1205345-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 12:47 PM

Compound	%Recovery
Freon 12	114
Freon 114	109
Chloromethane	118
Vinyl Chloride	108
1,3-Butadiene	104
Bromomethane	106
Chloroethane	112
Freon 11	111
Ethanol	90
Freon 113	109
1,1-Dichloroethene	107
Acetone	104
2-Propanol	100
Carbon Disulfide	129
3-Chloropropene	113
Methylene Chloride	105
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	116
Hexane	100
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	106
Tetrahydrofuran	99
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	104
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	103
Benzene	106
1,2-Dichloroethane	109
Heptane	106
Trichloroethene	106
1,2-Dichloropropane	102
1,4-Dioxane	101
Bromodichloromethane	108
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	102
Toluene	102
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	112
Tetrachloroethene	110
2-Hexanone	108

Client Sample ID: LCSD

Lab ID#: 1205345-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3051805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/12 12:47 PM

Compound	%Recovery
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	111
Chlorobenzene	110
Ethyl Benzene	109
m,p-Xylene	113
o-Xylene	113
Styrene	114
Bromoform	109
Cumene	115
1,1,2,2-Tetrachloroethane	113
Propylbenzene	113
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	116
Hexachlorobutadiene	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130