ECC Horizon

Environmental Claim & Project Management

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December 27, 2013

Mr. Dale Myers
Voluntary Cleanup Program
Washington Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, WA 98008-5452

VIA CERTIFIED MAIL

Site:	Former Cherry Street Cleaners 2510 E Cherry Street Indianapolis, Indiana 98122
Incident No.:	NW2009
ECC File:	W-S2510EC-I
Subject:	Vapor Intrusion Assessment – Islamic School of Seattle

Dear Mr. Myers:

On behalf of the former Cherry Street Cleaners (CSC), this letter documents a re-assessment of the potential for vapor intrusion at the Islamic School of Seattle (ISS) pursuant to the Washington Department of Ecology's (Ecology's) request, dated 10/15/13.[1] CSC was a dry cleaner that operated adjacent to ISS from 1968 to 2007. During this period, the facility handled tetrachloroethene (PCE), which was released to the subsurface. The chemicals of concern (COCs) in this matter are thus associated with historic dry cleaning operations, including chlorinated volatile organic compounds (cVOCs) such as PCE and its daughter products trichloroethene (TCE), cis-dichloroethene (c-DCE) and vinyl chloride (VC).

[1] Ecology, 2013, *Opinion Pursuant to WAC 173-340-515(5) on the Remedial Investigation for the Following Hazardous Waste Site*, Cherry Street Cleaners, Cleanup Site No. 4175, *TO:* Mr. James Hogan, ECC Horizon, *FROM:* Mr. Dale Myers, Ecology, 10/15/13.

Previous Vapor Intrusion Assessment

A vapor intrusion assessment (VIA) was previously conducted during November 2012 inside the school building, which included 5 indoor air samples and 6 subslab air samples. Those results evidenced 4 subslab samples exceeding MTCA Method B Soil Gas Screening Levels (SGSLs), but no indoor air concentrations exceeding MTCA Method B Carcinogenic Indoor Air Screening Levels (CIASLs).

Work Plan Rationale

For the November 2013 sampling event, Ecology requested that the sampling event be conducted under a "worst-case scenario". This scenario specifically required that the heating, ventilation, and air conditioning (HVAC) system be shut down and all windows and doors to the building be closed (to the extent practical) for at least 48 hours prior to the sampling event as well as throughout the duration of sampling. This procedure is intended to prevent any dilution or biasing of the indoor air and subslab concentrations during the sampling event.

In response to Ecology's request and in accordance with Ecology's draft *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action (*Draft VI Guidance*)*, dated October 2009, ECC Horizon developed the following work plan:

1. Conduct an indoor air survey and inventory all chemicals housed within the school building;
2. Install and sample nine subslab ports to include both basements and the slab-on-grade portion of the school building;
3. Collect samples from 17 indoor air locations throughout the basement, first and second floors;
4. Collect quality assurance/quality control (QA/QC) samples, including: two field duplicate samples and two outdoor ambient samples; and
5. Conduct the entire sampling event under the conditions outlined above for Ecology's "worst-case scenario".

The following narrative further describes our response in this regard.

November 2013 Vapor Intrusion Assessment

On 11/3/13, ECC Horizon surveyed the chemicals housed within the ISS building. The purpose of the survey is to identify and remove, if possible, indoor air sources that could contaminate the VIA. No chemicals were found in the building that specifically listed any COCs as an ingredient. However, any inventoried product that contained the general term 'solvent' as an ingredient was removed. Several products containing petroleum distillates as well as a heating oil tank remained in place throughout the sampling event. Per Ecology's Draft VI Guidance, ECC Horizon documented this building survey using the *Building Survey Form* from the State of California's *Vapor Intrusion Guidance Document*, dated 12/15/04. This form is provided in Attachment A.

After the chemicals were removed to the extent practical, ECC Horizon installed subslab vapor ports throughout the building's surface grade and basement foundation floors. Thereafter, the building remained closed with the HVAC system off for 48 hours, as requested. ECC Horizon then returned to the building to initiate subslab and indoor air sampling using laboratory-supplied 6-liter stainless steel Summa canisters. The laboratory tested each Summa canister used in this VIA to certify that each was uncontaminated prior to use. A detailed summary of ECC Horizon's air sampling procedure and the Summa canister laboratory certification reports are provided in Attachments B and C, respectively.

The resulting data from November 2013 are summarized in Table 1 along with data from the November 2012 VIA. The November 2013 data are also depicted relative to sampling locations on Figure 2. The associated laboratory analytical report is provided in Attachment D.

ECC Horizon calculated the relative percent differences (RPDs) for the data collected from SS-1 and SS-4 with the data from their respective duplicate air samples. The resulting RPDs varied within an acceptable range of 30%. The RPD calculations for the airborne VOCs are summarized in Table 2.

Evaluation

TCE Detection in IA-17

Of the 30 samples collected, IA-17 was the only sample in which TCE was detected above its respective CIASL. IA-17 was also the only sample in which the laboratory reported a Summa canister vacuum pressure of nearly zero (0.3" Hg) upon receipt.

This reading is considerably lower than the final vacuum pressure reading recorded in the field, which was 5.0" Hg. Consequently, the Summa canister consumed additional air as it lost vacuum pressure during transport to or while at the laboratory. This additional air would have compromised the quality of the analytical results for IA-17 by introducing air into the sample from somewhere else. If the air were contaminated with TCE, then TCE could have been introduced into the sample.

To further evaluate if the IA-17 sample result quality was compromised, ECC Horizon reviewed the concentrations of TCE within the other samples. Of the 16 other indoor air samples, only one (IA-2) contained a detection of TCE. That detection of 0.2 micrograms per meter cubed (ug/m^3) complied with the regulatory requirement. Consequently, the sample from IA-17, which contained a concentration of 3.2 ug/m^3, is dissimilar from the other 15 samples by over and order of magnitude.

ECC Horizon also evaluated how IA-17 compares to samples collected beneath the building foundation. The building's foundation represents the threshold from which vapors emanating from the former CSC could enter the building. Thus, if TCE was detected in the subsurface, then it could migrate through cracks in the building's foundation and be detected within the building's interior air. However, none of the 9 subslab samples contained detectable amounts of TCE. Consequently, TCE is not migrating from the subsurface into indoor air above the laboratory's detection limits.

In consideration of the compromised pressure reading of IA-17 coupled with the lack of noncompliant TCE in the other indoor air samples as well as the lack of TCE in subslab soil gas, the data suggest that the TCE was introduced into IA-17 by something unrelated to CSC's past operations. As such, ECC Horizon concludes that the laboratory result for IA-17 inaccurately represents the air encountered on the 2nd floor of the ISS building where IA-17 was collected.

Benzene Detections

Benzene was detected above its CIASL in 10 indoor air samples with a concentration as high as 0.63 ug/m^3. It was also detected in both ambient outdoor air samples at 0.35 ug/m^3. When corrected for the outdoor air contamination, the highest indoor air sample result complies with the CIASL of 0.32 ug/m^3. Regardless, benzene is not associated with historical dry cleaning operations and is therefore not a COC associated with the CSC Site.

Conclusion

This is the second consecutive vapor intrusion assessment evidencing indoor air results that comply with the regulatory requirement for COCs associated with the CSC site, with the latest round being conducted under a "worst-case scenario". Based on these data, ECC Horizon has concluded that the vapors from the COCs associated with the CSC site are not intruding into the ISS building. Therefore, this pathway is incomplete and no further action is necessary in this regard.

Should you have any questions or need for additional information, please contact our office at your convenience.

Very truly yours,
ECC Horizon

for Casey McFall

Casey McFall
Project Manager

James Hogan, RG
Director

State of Washington
2848
Licensed Geologist
JAMES PATRICK HOGAN

Encl:

	Figure 1	Site Plan
	Figure 2	Vapor Intrusion Analytical Results – November 2013
	Table 1	Historical Vapor Intrusion Analytical Results – Islamic School of Seattle
	Table 2	Vapor Intrusion Duplicate Sample Analytical Results – Islamic School of Seattle
Attachment A		Indoor Air Checklists & Chemical Inventories
Attachment B		Air Sampling Collection Procedure
Attachment C		Summa Canister Laboratory Certification Reports
Attachment D		Vapor Intrusion Laboratory Analytical Report

cc: Ms. Vera Benton, Cherry Street Cleaners
Ms. Alouise Urness, Islamic School of Seattle

Tables

Table 1
Historical Vapor Intrusion Analytical Results - Islamic School of Seattle
Volatile Organic Compounds (VOCs) Compared to Model Toxics Control Act (MTCA) Screening Levels

Former Cherry Cleaners
2510 E. Cherry St., Seattle, Washington

Sampling Event	Sample Location	Depth / Height of Sample (ft)	Date Collected	Initial Pressure Reading In. Hg	Final Pressure Reading In. Hg	Sample Type	Analytical Type	Tetrachloroethene µg/m^3	Trichloroethene µg/m^3	cis-1,2-Dichloroethene µg/m^3	Vinyl Chloride µg/m^3	Benzene µg/m^3	1,1-Dichloroethane µg/m^3	1,2-Dichloroethane µg/m^3	1,1-Dichloroethene µg/m^3	Ethyl Benzene µg/m^3	n-Hexane µg/m^3	Toluene (ug/m^3)	Xylenes (ug/m^3)
MTCA Method B Carcinogenic Indoor Air Screening levels (CIASLs)[1]								9.6	0.37	#[2]	0.28	0.32	#	0.096	#	#	#	#	#
MTCA Method B Soil Gas Screening levels (SGSLs)[1]								96	3.7	#	2.8	3.2	#	0.96	#	#	#	#	#
November 2012	IA-13	4	11/30/12	-29.0	-8.0	Indoor Air	TO-15	0.81	<0.20	<0.14	<0.047	**1.3**	<0.15	<0.15	<0.072	0.68	--	6.3	3.24
	IA-17	8	11/30/12	-20.0	-7.0	Indoor Air	TO-15	0.57	<0.18	<0.13	<0.043	**1.2**	<0.14	<0.14	<0.067	0.74	--	5.8	3.54
	SV-23	-1.0	11/30/12	-28.5	-7.0	Subslab	TO-15	**230**	<0.19	<0.14	<0.046	<0.28	<0.14	<0.14	<0.071	<0.16	--	0.60	<0.47
	SV-24	-1.0	11/30/12	-28.0	-6.0	Subslab	TO-15	**300**	<0.26	<0.19	<0.062	0.51	<0.20	<0.2	<0.096	0.55	--	4.0	2.95
	IA-14	8	11/30/12	-28.0	-11.0	Indoor Air	TO-15	<0.23	<0.18	<0.14	<0.044	**1.2**	<0.14	<0.14	<0.068	0.73	--	5.0	3.04
	IA-15	6	11/30/12	-28.5	-8.0	Indoor Air	TO-15	0.41	<0.21	<0.16	<0.051	**1.3**	<0.16	<0.16	<0.079	0.81	--	5.0	3.8
	IA-16	6	11/30/12	-27.5	-5.0	Indoor Air	TO-15	<0.22	<0.18	<0.13	<0.042	**1.2**	<0.13	<0.13	<0.066	0.40	--	2.4	1.79
	SV-20	-1.0	11/30/12	-30.0	-8.0	Subslab	TO-15	67	<0.19	<0.14	<0.046	<0.28	<0.14	<0.14	<0.071	0.17	--	0.40	0.38
	SV-21	-1.0	11/30/12	-29.0	-8.0	Subslab	TO-15	**210**	1.4	<0.15	<0.048	**28**	<0.15	<0.14	<0.075	13	--	10	233
	SV-22	-1.0	11/30/12	-29.5	-7.0	Subslab	TO-15	**240**	<0.20	<0.14	<0.047	<0.29	<0.15	<0.15	<0.072	<0.16	--	1.2	<0.48
	SV-25	-1.0	11/30/12	--	--	Subslab	TO-15	75	1.7	<0.14	<0.046	**30**	<0.14	<0.14	<0.070	11	--	13	124
	AMB-3	5	11/30/12	-29.5	-8.0	Outdoor Air	TO-15	<0.22	<0.18	<0.13	<0.042	**0.84**	<0.13	<0.13	<0.065	0.32	--	2.4	1.32
November 2013	ISS:IA1	3	11/7/13	-30+	-5.5	Indoor Air	TO-15	0.38	<0.17	<0.12	<0.040	0.32	<0.13	<0.13	<0.062	0.34	--	9.4	1.74
	ISS:SS1	-1	11/7/13	-30	-4.5	Subslab	TO-15	26	<0.17	<0.13	<0.041	<0.25	<0.13	<0.13	<0.063	0.15	--	1.7	0.88
	ISS:IA2	3	11/7/13	-30+	-5.5	Indoor Air	TO-15	0.36	0.2	<0.12	<0.040	0.31	<0.13	<0.13	<0.062	0.14	--	1.7	0.29
	ISS:SS2	-1	11/7/13	-30+	-6.5	Subslab	TO-15	82	<0.17	<0.12	0.10	0.33	<0.13	<0.13	<0.062	0.39	--	13.0	2.05
	ISS:IA3	3	11/7/13	-30+	-6.5	Indoor Air	TO-15	<0.22	<0.18	<0.13	<0.042	0.31	<0.13	<0.13	<0.065	0.18	--	1.9	0.88
	ISS:SS3	-1	11/7/13	-27	-13.5	Subslab	TO-15	4.1	<0.24	<0.18	0.49	0.95	<0.18	<0.18	<0.088	0.37	--	12.0	1.39
	ISS:IA4	3	11/7/13	-30+	-5.0	Indoor Air	TO-15	<0.22	<0.17	<0.12	<0.040	**0.63**	<0.12	<0.12	<0.061	0.28	--	3.3	1.36
	ISS:SS4	-1	11/7/13	-30+	-6.0	Subslab	TO-15	0.73	<0.17	<0.12	<0.040	<0.25	<0.13	<0.13	<0.062	0.17	--	1.6	0.82
	ISS:IA5	3	11/7/13	-30+	-6.5	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	**0.39**	<0.13	<0.13	<0.063	0.19	--	1.8	0.96
	ISS:SS5	-1	11/7/13	-30	-5.0	Subslab	TO-15	0.29	<0.17	<0.12	0.072	<0.25	<0.13	<0.13	<0.062	0.18	--	1.7	1.01
	ISS:IA6	3	11/7/13	-30+	-5.0	Indoor Air	TO-15	<0.21	<0.16	<0.12	<0.039	**0.37**	<0.12	<0.12	<0.061	0.18	--	1.3	0.81
	ISS:SS6	-1	11/7/13	-30+	-5.0	Subslab	TO-15	<0.21	<0.17	<0.12	<0.040	<0.25	<0.13	<0.13	<0.062	0.24	--	2.2	1.09
	ISS:IA7	3	11/7/13	-30+	-6.5	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	**0.34**	<0.13	<0.13	<0.062	0.18	--	1.3	0.79
	ISS:SS7	-1	11/7/13	-30	-5.5	Subslab	TO-15	0.22	<0.16	<0.12	<0.039	<0.24	<0.12	<0.12	<0.061	0.22	--	1.7	1.08
	ISS:IA8	3	11/7/13	-30+	-6.5	Indoor Air	TO-15	<0.23	<0.18	<0.13	<0.043	**0.36**	<0.14	<0.14	<0.066	0.24	--	1.3	1.20
	ISS:SS8	-1	11/7/13	-29.5	-5.5	Subslab	TO-15	1.9	<0.17	<0.12	0.083	<0.25	<0.12	<0.12	<0.061	0.21	--	3.0	1.17
	ISS:IA9	3	11/7/13	-30+	-7.0	Indoor Air	TO-15	<0.23	<0.18	<0.13	<0.043	**0.44**	<0.14	<0.14	<0.067	0.19	--	1.8	0.85
	ISS:SS9	-1	11/7/13	-30	-5.5	Subslab	TO-15	4.4	<0.17	<0.13	0.11	0.47	<0.13	<0.13	<0.063	0.57	--	4.8	2.11
	ISS:IA10	3	11/7/13	-29	-5.0	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	0.29	<0.12	<0.12	<0.061	0.16	--	1.0	0.71
	ISS:IA11	3	11/7/13	-30+	-5.0	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	0.31	<0.13	<0.13	<0.062	0.17	--	1.1	0.75
	ISS:IA12	3	11/7/13	-30+	-6.0	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	0.28	<0.13	<0.13	<0.062	<0.14	--	1.1	0.66
	ISS:IA13	3	11/7/13	-30+	-6.0	Indoor Air	TO-15	0.65	<0.17	<0.12	<0.040	0.32	<0.13	<0.13	<0.062	0.16	--	0.99	0.74
	ISS:IA14	3	11/7/13	-30+	-6.0	Indoor Air	TO-15	<0.22	<0.18	<0.13	<0.042	**0.33**	<0.13	<0.13	<0.065	0.18	--	1.4	0.76
	ISS:IA15	3	11/7/13	-30+	-6.5	Indoor Air	TO-15	<0.22	<0.18	<0.13	<0.042	**0.36**	<0.13	<0.13	<0.065	0.18	--	1.4	0.77
	ISS:IA16	3	11/7/13	-30+	-5.0	Indoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	**0.38**	<0.13	<0.13	<0.062	0.19	--	1.7	0.85
	ISS:IA17	3	11/7/13	-30+	-5.0	Indoor Air	TO-15	4.8	**3.2**	<0.10	<0.033	**0.48**	<0.11	<0.11	<0.052	0.13	--	4.0	2.74
	ISS:OA1	3	11/7/13	-30+	-6.0	Outdoor Air	TO-15	<0.21	<0.17	<0.12	<0.040	**0.35**	<0.12	<0.12	<0.061	0.17	--	1.2	0.81
	ISS:OA2	3	11/7/13	-30+	-6.5	Outdoor Air	TO-15	<0.22	<0.17	<0.13	<0.041	**0.35**	<0.11	<0.13	<0.063	0.16	--	1.5	0.75

Notes:
1. Screening Levels obtained from Cleanup Levels and Risk Calculations (CLARC) Database, developed and maintained by the Washington State Department of Ecology. Referenced June 2013.
2. # denotes no value exists in the CLARC database for this compound.
3. -- denotes compound not analyzed.
4. The laboratory measured a vacuum pressure of 0.0 inches Hg in sample ISS:IA17, which is lower than the measured pressure when the Summa canister was sealed at the ISS. Consequently, this container may have been contaminated by other air unrelated to the sample point either during transport to or upon re-opening at the laboratory.
5. Subslab Screening Levels and data are shaded gray to differentiate from unshaded Indoor Air Screening Levels and data.
6. **Bold** denotes concentration exceeds its respective MTCA Method B Screening Level.
7. µg/m^3 = micrograms per cubic meter

Table 2
Vapor Intrusion Duplicate Sample Analytical Results - Islamic School of Seattle

Former Cherry Cleaners
2510 E Cherry Street, Seattle, WA

Monitoring Well	Sample Collection Date	Tetrachloroethene µg/m^3	Trichloroethene µg/m^3	cis-1,2-Dichloroethene µg/m^3	Vinyl Chloride µg/m^3
SS-1	11/8/2013	26	*0.09*	*0.07*	*0.021*
FD-1	11/8/2013	28	*0.09*	*0.07*	*0.020*
RPD		7%	0%	0%	5%
SS-4	11/8/2013	0.73	*0.09*	*0.06*	*0.020*
FD-2	11/8/2013	0.73	*0.09*	*0.06*	*0.020*
RPD		0%	0%	0%	0%

NOTES:

Values in *italics* represent half of the detection limit for those analytes that were not detected.
RPD = Relative Percent Difference

Figures

EAST COLUMBIA STREET

ISLAMIC SCHOOL OF SEATTLE BLDG

720 25th Avenue

PAVED ALLEY

711A 26th Avenue

25th AVENUE

26th AVENUE

SCHOOL YARD

ABANDONED HEATING OIL UST

UST FILL PORT

UST VENT LINE

BUILDING

FORMER DRY CLEANING MACHINE

FORMER CHERRY CLEANERS BLDG (Demolished)

2510 E. Cherry St.

2516 E. Cherry St.

2518 E. Cherry St.

2522 E. Cherry St.

WATER VALVE

WATER METER

MW-11

EAST CHERRY STREET

LEGEND

- TREE
- PINE TREE
- Men & Women Restroom
- CATCH BASINS
- PAD MOUNTED TRANSFORMER
- GAS METER
- WATER METER
- TELEPHONE RISER
- TELEPHONE VAULT
- TRANSMISSION TOWER
- POWER POLE or TELEPHONE POLE
- FIRE HYDRANT
- MAN HOLE

LINETYPE STANDARDS

- BARBEB WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- WATER LINE
- STORM SEWER LINE
- SANITARY SEWER LINE
- NATURAL GAS LINE
- UNDERGROUND ELECTRICAL LINE
- OVERHEAD ELECTRICAL LINE
- ABOVE GROUND ELEC. LINE
- COMMUNICATIONS LINE
- TELEPHONE LINE
- UNDERGROUND TELEPHONE
- FIBER OPTICS LINE
- FIRE WATER LINE
- TRAFFIC SIGNAL LINE
- EASEMENT LINE
- SWALE LINE
- EDGE OF WATER LINE
- BUILDING SETBACK LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE

N

W E

S

20 0 20

GRAPHIC SCALE: 1" = 20'

Project Number
W-S2510EC

Drawing File
Plot_Site_Map

Date
12/17/13

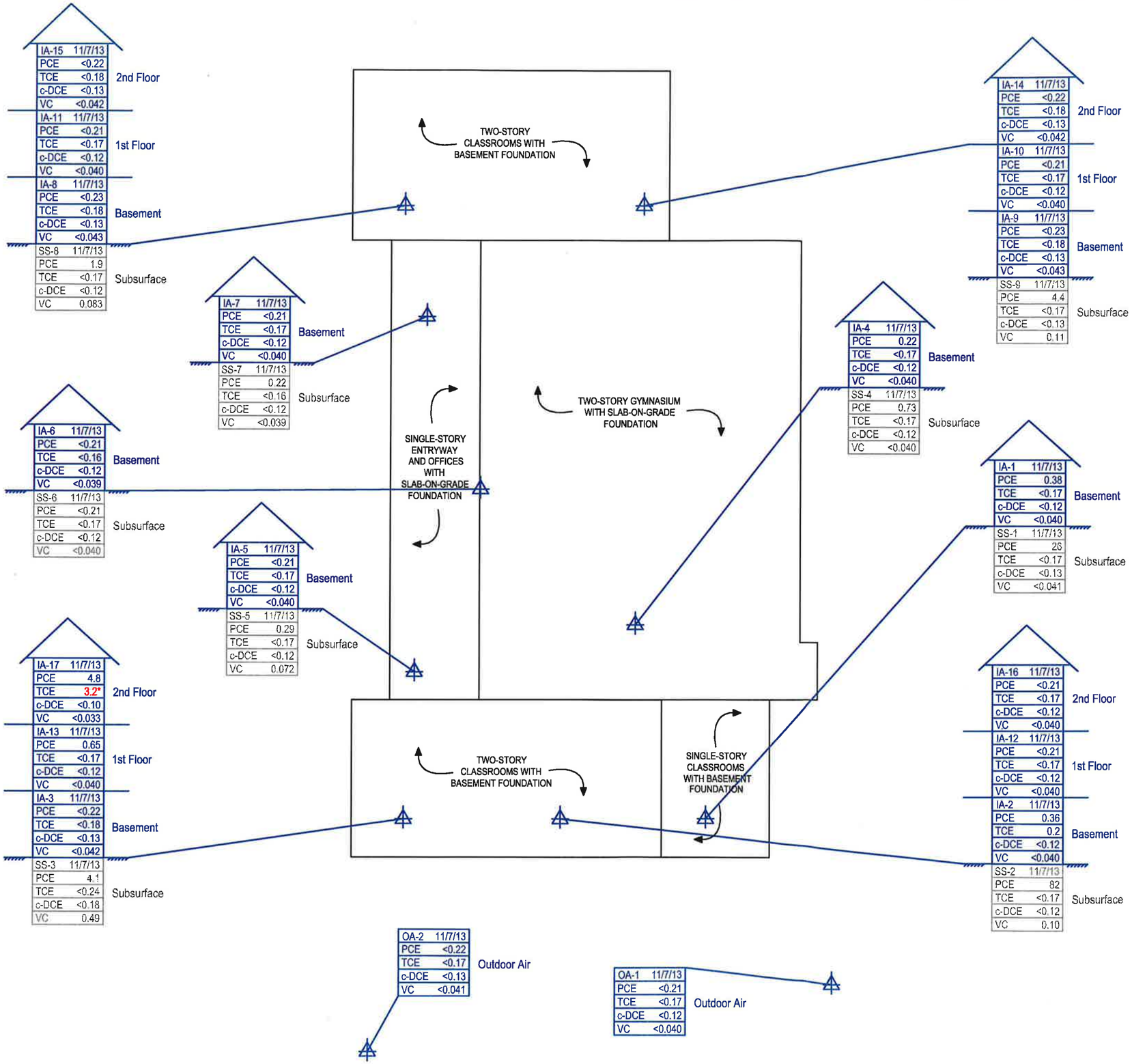
Scale
AS SHOWN

SITE PLAN

FORMER CHERRY CLEANERS
2510 EAST CHERRY STREET
SEATTLE, WASHINGTON

ECC Horizon

Figure
1



Indoor Air Sampling Location		Date	
		MTCA Method B	
		Soil Gas	Indoor Air
PCE	Tetrachloroethene	96	9.6
TCE	Trichloroethene	3.7	0.37
cDCE	cis-1,2-Dichloroethene	#	#
VC	Vinyl Chloride	2.8	0.28

NOTES:
1. Results reported in micrograms per cubic meter (ug/m3)
2. This figure includes PCE, TCE, cDCE and VC analytical results. No other chlorinated volatile organic compounds were detected above actionable levels.
3. Screening levels obtained from Cleanup Levels and Risk Calculation (CLARC) Database, last reviewed June 2013
4. MTCA = Method Toxics Control Act
5. # Denotes no value exists in CLARC database for this compound
6. 3.2* Denotes analytical result exceeds applicable action level

Project Number: W-S2510EC
Drawing File: Plot_4Q13
Date: 12/17/13
Scale: AS SHOWN

VAPOR INTRUSION ANALYTICAL RESULTS – NOVEMBER 2013
ISLAMIC SCHOOL OF SEATTLE – 720 25TH AVENUE

FORMER CHERRY CLEANERS
2510 EAST CHERRY STREET
SEATTLE, WASHINGTON

ECC Horizon

Figure: 2

Attachment A

Indoor Air Checklists & Chemical Inventories

APPENDIX K - BUILDING SURVEY FORM

This form must be completed for each building involved in an indoor air investigation.

Preparer's name Eric Caldwell Date prepared 11/3/13

Preparer's affiliation ECC Horizon

Telephone number 317-965-3337

1. **OCCUPANT**

Name Vacant

Address

City

Home telephone number

Office telephone number

2. **OWNER OR LANDLORD**

Name Islamic School of Seattle
(If different than occupant)

Address 720 25th Ave, Seattle
Contact - Alouise Urness

Telephone number 206-729-2354

A. Type of Building Construction

Type (circle appropriate responses): Single Family Multiple Dwelling Commercial

Ranch	Two-family
Raised Ranch	Duplex
Split Level	Office
Colonial	Warehouse
Mobile Home	Strip Mall
Apartment Building:	Number of Units
Other School	

Building Age 88 Number of stories 2 above ground, 2 partial basements

Area of the Building (square feet) Slab ~ 9,000 ft2

Is the building insulated? yes / no How sealed is the building? Poorly

Number of elevators in the building ϕ

Condition of the elevator pits (sealed, open earth, etc.) na

General description of building construction materials brick + mortar

B. Foundation Characteristics (circle all that apply)

1. Full basement, crawlspace, slab on grade, other 2 partial basements, partial slab on grade
2. Basement floor description: concrete, dirt, wood, other _____
   a. The basement is: wet, damp, dry
   b. Sump present? yes / no Water in sump? yes / no na
   c. The basement is: finished, unfinished both
   d. Is the basement sealed? Provide a description laminate flooring, paint on walls
3. Concrete floor description: unsealed, painted, covered; with tile + laminate
4. Foundation walls: poured concrete, block, stone, wood, other _____
5. Identify all potential soil gas entry points and their size (e.g., cracks, voids, pipes, utility ports, sumps, drain holes, etc.). Include these points on the building diagram.

C. Heating, Ventilation, and Air Conditioning (circle all that apply)

1. The type of heating system(s):

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
Steam Radiation	Wood Stove
Electric Baseboard	Other (specify) _____

2. The type of fuel used: Natural Gas, Fuel Oil, Electric, Wood, Coal, Solar
   Other (specify) fuel oil tank (UST) with natural gas (can switch back & forth)
3. Location of heating system: basement
4. Is there air-conditioning? yes / no Central Air or Window Units?

Specify the location _____

5. Are there air distribution ducts present? (yes) / no

6. Describe the supply and cold air return duct work including whether there is a cold air return and comment on the tightness of duct joints.
na

7. Is there a whole house fan? yes / (no)
What is the rated size of the fan? na

8. Temperature settings inside during sampling. Note day and night temperatures.
54° a. Daytime temperature(s) ~~[illegible]~~ °F
46° b. Nighttime temperature(s) ~~55°F~~ heat system is turned off
(Note times if system cycles during non-occupied hours during the day)

9. Estimate the average time doors and windows are open to allow fresh outside air into the building. Note rooms that frequently have open windows or doors.
building completely closed.

D. Potential Indoor Sources of Pollution

1. Is the laundry room located inside the home? yes / (no)
2. Has the house ever had a fire? yes / (no)
2. Is there an attached garage? yes / (no)
3. Is a vehicle normally parked in the garage? yes / (no)
4. Is there a kerosene heater present? yes / (no)
5. Is there a workshop, hobby or craft area in the residence? yes / (no)
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? (yes) / no Where is it vented? back into kitchen
8. Is the stove gas or (electric)? _____ Is the oven gas or (electric)? _____
9. Is there an automatic dishwasher? (yes) / no
10. Is smoking allowed in the building? yes / (no)
11. Has the house ever been fumigated or sprayed for pests? If yes, give date, type and location of treatment. Orkin comes every other month for rat control

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications

Well Diameter _____ Grouted or Ungrouted _____

Well Depth _____ Type of Storage Tank _____

Depth to Bedrock _____ Size of Storage Tank _____

Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality

Taste and/or odor problems with water? yes / no If so, describe _____

Is the water chlorinated, brominated, or ozonated? yes / no

How long has the taste and/or odor problem been present? na

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additives _____

F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.

G. Potential Outdoor Sources of Pollution

Draw a diagram of the area surrounding the building being sampled. If applicable, provide information on the spill locations (if known), potential air contamination sources (industries, service stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and field instrument readings.

Also, on the diagram, indicate barometric pressure, weather conditions, ambient and indoor temperatures, compass direction, wind direction and speed during sampling, the locations of the water wells, septic systems, and utility corridors if applicable, and a statement to help locate the site on a topographical map.

APPENDIX L – HOUSEHOLD PRODUCTS INVENTORY FORM

Occupant of Building vacant

Address _____

City _____

Field Investigator E CALDWELL Date 11-13-13

Product Description (commercial name, dispenser type, container size, manufacturer, etc.)	Volatile Ingredients in the Product	Field Instrument Reading
see attached		

Comments:

_____

_____

Indoor Air Contaminant Sources

SITE: WI-S2510EC-I
ADDRESS: 720 25TH Ave., Seattle, WA
LOCATION IN BUILDING:
DATE: 11/3/13

Potential Source	Trade Name	Active / Main Ingredient	Removed (Y/N)
Isopropyl alcohol	Isopropyl alcohol	Isopropyl alcohol, methyl salicylate	Y
Glass cleaner	Pro Pride w/ Ammonia	contains no VOCs	Y
Glass cleaner	First Street	Ammonia	Y
Upholstery cleaner	Rug Doctor	not specified	Y
Carpet Cleaner	Bissell	"	Y
Odor Remover	Rug Doctor	"	Y
Scotchguard	Bissell	"	Y
Carpet Shampoo	Red Max	Surfactants	Y
Carpet Cleaner	Bissell	not spec.	Y
Floor Stripper	25 Grand	Glycol ethers	Y
Remover	Goof off	20% VOCs	Y
Gasoline	Gasoline	1 gal container full of gasoline	Y
Paint	House paint	2 - 1 gal buckets, 1-3 gal bucket	N
Dust up	Sprayway	Isoparaffinic Solvent, Mineral Spirits, Petroleum gas	Y
Dust mop	Misty	Petroleum distillates (3 cans)	Y
Chewing gum remover	Sprayway	Ethanol, Petroleum gas	Y
Paint thinner	acetone	Acetone	Y
Spray paint	Krylon	Acetone, propane, toluene, butane, trimethylbenzenes (2 cans)	Y
furniture polish	Champion	Isoparaffinic hydrocarbons, propane, N-butane,	Y
remover	CLR	Surfactants	Y

janitor's closet near trailer

Notes:

Indoor Air Contaminant Sources

SITE: W-S2510EC-I
ADDRESS: 720 25th Ave, Seattle, WA
LOCATION IN BUILDING:
DATE: 11/3/13

Potential Source	Trade Name	Active / Main Ingredient	Removed (Y/N)
Spray paint (units room ant)	Red devil	Ketones, toluene, aliphatic hydrocarbons	Y
Drano	Drano	Sodium hydroxide	N
Paint thinner	Klean-Strip	Petroleum distillates	Y
rooter killer	Zep	Copper Sulfate Pentahydrate	Y
two-cycle oil	Havoline	petroleum products	Y
room freshner	Vanilla Twist	Acetone, propane, hydrocarbons	Y
elmer's wood glue	Elmer's	not specified	N
root cement	Black Jack	VOC's = 250 g/L	Y
polish	Brasso	petroleum distillate & ammonia — 32oz	Y
wood stain	Minwax	Aliphatic hydrocarbons (2 cans)	Y
Paint stripper	Citristrip	N-Methyl-2 pyrrolidone - max VOCs > 50%	Y
Stainless steel polish	Hope's	not specified	Y
adhesive	Simpson	VOC's	Y
ink remover	Liftoff	not specified	Y
tile sealer	Treewax	not specified	Y
floor polish	Armstrong	glycol ether	Y

Notes:

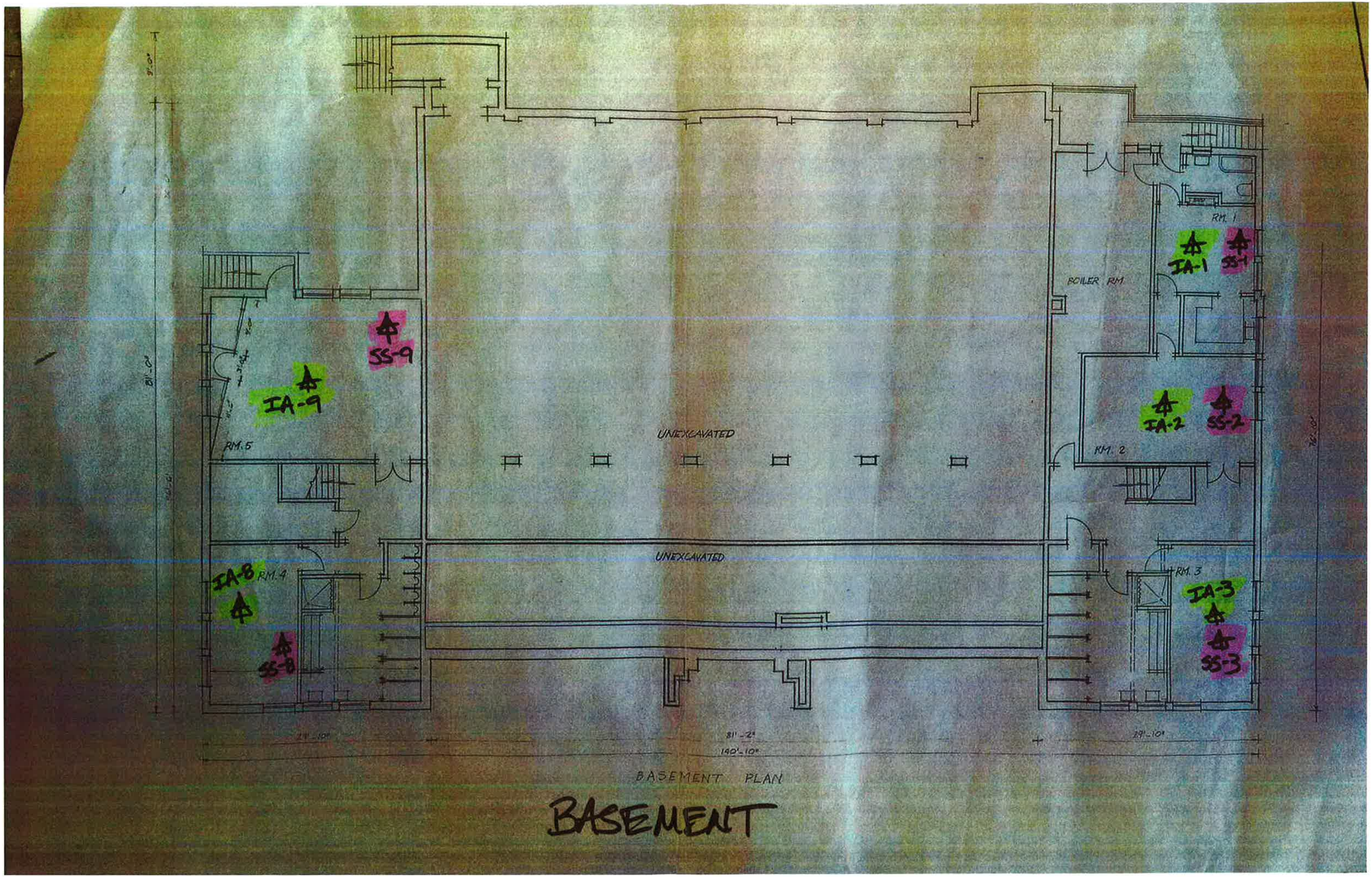
Indoor Air Contaminant Sources

ECC Horizon

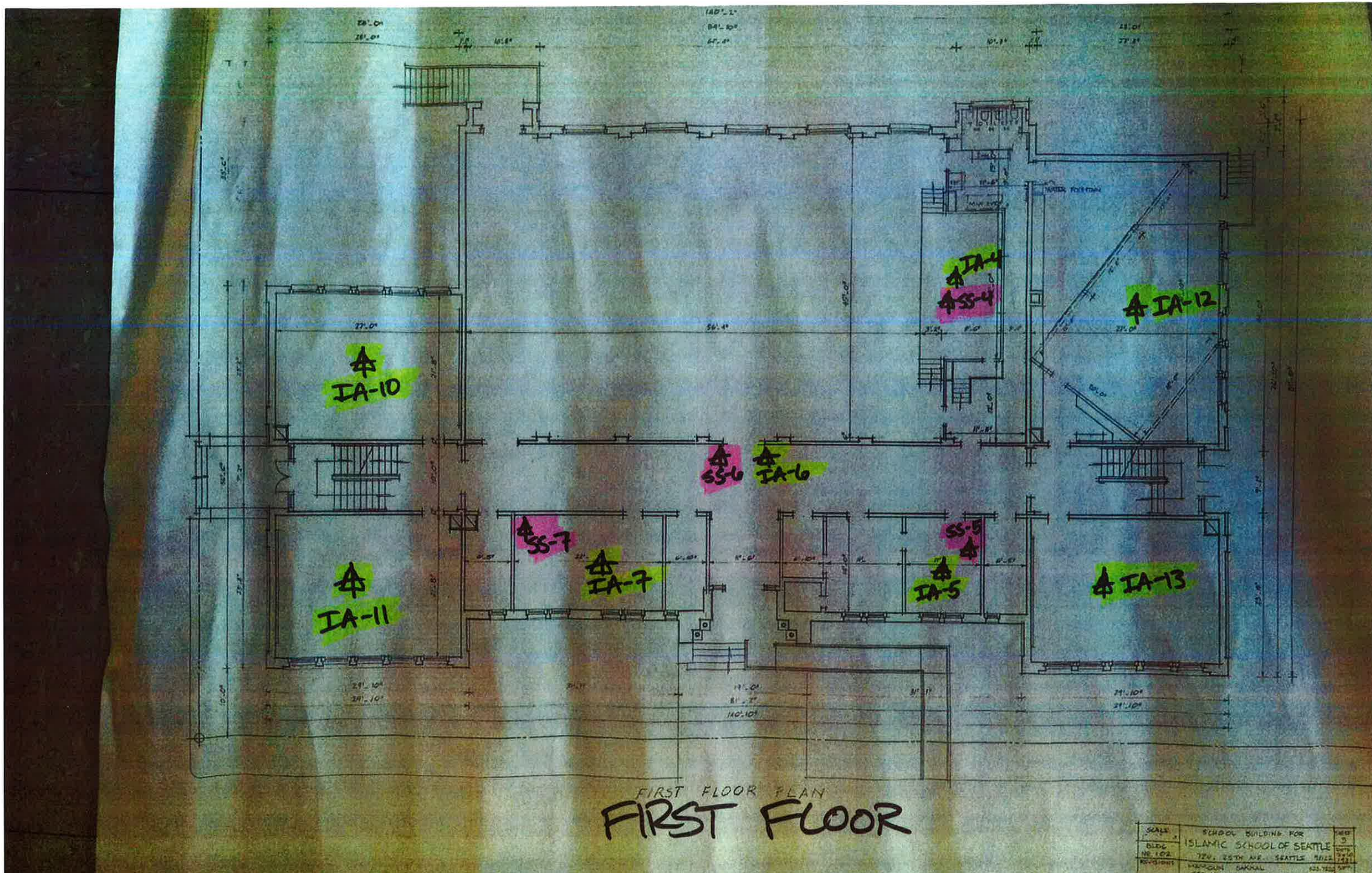
SITE: W-52510EC-I
ADDRESS: 720 25th Ave. Seattle, WA
LOCATION IN BUILDING:
DATE: 11-3-13

Potential Source	Trade Name	Active / Main Ingredient	Removed (Y/N)
glass cleaner	Misty	not specified	N
tile adhesive	Roberts	"zero VOCs" (3-5 gal buckets)	N
paint	misc.	approx 20 gallons, not specified	
Chain lubricant	STP	Heptan, Propane, Isobutane	

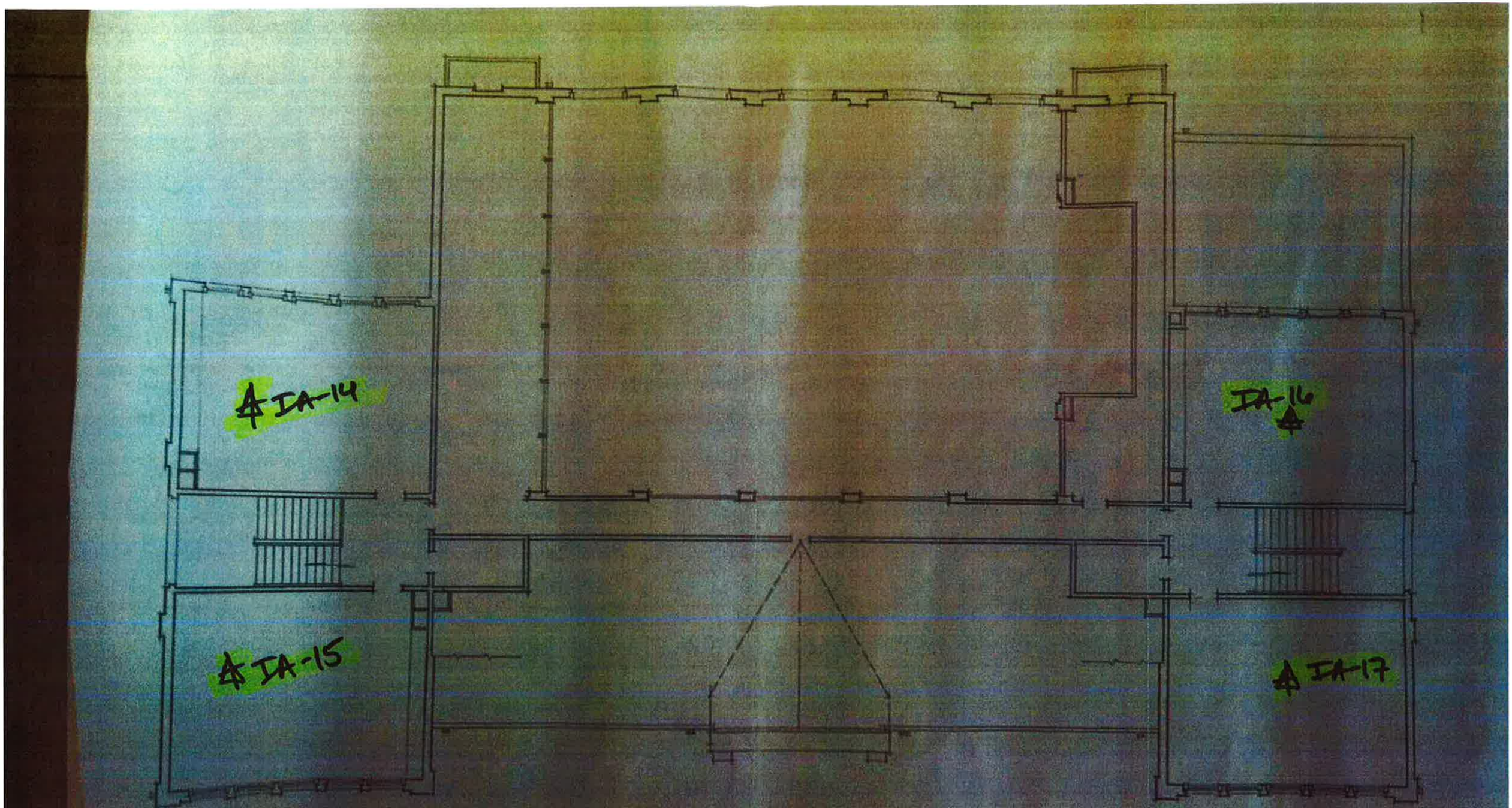
Notes:


RM. 5
UNEXCAVATED
BOILER RM.
RM. 1
RM. 2
RM. 3
RM. 4
UNEXCAVATED
IA-9
SS-9
IA-1
SS-1
IA-2
SS-2
IA-3
SS-3
IA-8
SS-8
81'-2"
140'-10"
BASEMENT PLAN

BASEMENT



IA-4
SS-4
IA-12
IA-10
SS-6
IA-6
SS-7
IA-7
SS-5
IA-5
IA-13
IA-11
FIRST FLOOR PLAN
FIRST FLOOR
SCALE
BLDG NO. 102
SCHOOL BUILDING FOR
ISLAMIC SCHOOL OF SEATTLE



SECOND FLOOR

SECOND FLOOR PLAN

Attachment B

Air Sampling Collection Procedure

Air Sample Collection Procedure

Islamic School of Seattle
720 25th Avenue
Seattle, Washington

ECC File W-S2510EC-I

ECC Horizon installed a single stainless steel subslab sample port within each tenant space by drilling a hole through the floor with a rotary hammer drill. The ports were sealed with a silicone sleeve and sealed at the surface using non-toxic modeling clay. The ports seal off subslab soil gas from entering indoor air with tamper resistant stainless steel threaded plugs.

To sample air, ECC Horizon ordered re-usable 6-Liter Summa canisters from Eurofins Air Toxics, Inc. (Air Toxics). Before shipping the canisters to ECC Horizon, Air Toxics certified each individual canister as clean and pre-set each canister's negative pressure to -30 pounds per square inch (psi). The associated canister certification laboratory reports are provided in Attachment *C*. Air Toxics also provided valves calibrated to collect air over an 8-hour time-weighted average (TWA).

Prior to mobilizing to the field, ECC Horizon personnel verified each canister's clean certification report. In addition, ECC Horizon personnel assigned dedicated 8-hour TWA valves to each canister and assembled each for a 2 hour period to (1) verify a negative pressure within the canister; and (2) observe the integrity of the valve assembly by monitoring its ability to maintain negative pressure with the valve closed. Each canister passed these tests and was therefore useable for air sampling.

Prior to sampling on 11/5/13, ECC Horizon confirmed the airtight seal at each subslab port by covering each port with an airtight shroud and introducing helium gas into the shroud. A piece of tubing extended from the port barb through the shroud and was connected to a Helium detector. The presence of Helium was not detected at any port during these tests. Following the airtight test, ECC Horizon purged each subslab port screen of 1 liter of air using a discrete air sampling pump and 1-liter Tedlar bag. A piece of Teflon-lined polyethylene (FEP) tubing was connected to the subslab port barb via #15 silicone tubing. The opposite end of the FEP tubing was then connected to a vacuum box that contained a 1-liter Tedlar bag within it. A discreet air pump was then connected to the vacuum box to transfer the soil gas into the Tedlar bag. After filling the Tedlar bag, the valve was sealed before disconnecting it from the vacuum box. The bags were then discharged outside and downwind of the building.

On 11/7/13, ECC Horizon began collecting the samples. Each Summa canister/valve assembly was setup as per pre-testing assembly. Each subslab sample was collected by connecting a barb on the subslab port to 0.25-inch outside diameter FEP tubing using #15 silicone bridge tubing. The

FEP tubing was then connected to the top of the Summa canister utilizing a laboratory-provided ferrule and swagelock fitting. Each corresponding indoor air sample was collected at approximately 3 to 5 feet above the floor location of the subslab port. The valves for both samples were opened simultaneously.

Each Summa canister pressure reading was recorded before and after the collection of each sample. In addition, canister pressure readings were recorded once per hour for the first 2 hours and last 2 hours of sampling to monitor the TWA progress. Each canister valve was closed after 8 hours.

Two outdoor air samples (OA-1 and OA-2) and two field duplicates (FD-1 and FD-2) were collected for quality assurance and quality control (QA/QC). Outdoor air sample OA-2 was collected approximately 40 feet upwind of the school building, which was determined by field observations. The second outdoor air sample, OA-1, was collected from the area between the school and former Cherry Street Cleaners property. The field duplicate samples were collected from SS-1 and SS-4, located within the school building.

Once the sampling event was complete, subslab ports were capped utilizing Teflon tape and threaded stainless steel caps that fit flush with the floor. These caps will prevent the inflitaration of subslab vapors into the indoor air. The valves were disassembled from the Summa canisters and each Summa canister was fitted with a brass cap which was tightened to ensure an airtight seal. All equipment was shipped in laboratory-supplied packaging under chain-of-custody to Air Toxics in Folsom, California. The samples were analyzed for volatile organic compounds (VOCs) using *USEPA Method TO-15 SIM*.

Attachment C

Summa Canister Laboratory Certification Reports

IA-1

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 933
Can#: 93545-933
Date : 10/30/13 22:23
Data File: o103011.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	99.00	% Recovery

SS-1

eurofins | Air Toxics

Media Certification Report

Canister Number: 6L# 33889
Can#: 93545-33889
Date : 10/30/13 23:23
Data File: o103013.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	99.00	% Recovery

IA-2

eurofins | Air Toxics

Media Certification Report

Canister Number: 6L# 33986
Can#: 93545-33986
Date : 10/30/13 20:19
Data File: o103007.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

SS-2

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 20998
Can#: 93545-20998
Date : 10/30/13 23:53
Data File: o103014.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

IA-3

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 34486
Can#: 93545-34486
Date : 10/31/13 8:18
Data File: o103031.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

SS-3

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 25259
Can#: 93545-25259
Date : 10/31/13 1:20
Data File: o103017.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

IA-4

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 35244
Can#: 93545-35244
Date : 10/31/13 0:24
Data File: o103015.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

SS-4

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 31157
Can#: 93545-31157
Date : 10/30/13 19:48
Data File: o103006.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

IA-5

eurofins | Air Toxics

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 20943
Can#: 93545-20943
Date : 10/31/13 4:22
Data File: o103023.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

SS-5

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Media Certification Report

Canister Number: 6L# 4206
Can#: 93545-4206
Date : 10/31/13 5:47
Data File: o103026.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	101.00	% Recovery

IA-6

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Media Certification Report

Canister Number: 6L# 30838
Can#: 93545-30838
Date : 10/31/13 8:48
Data File: o103032.d

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Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

55-6

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Media Certification Report

Canister Number: 6L# 34425
Can#: 93545-34425
Date : 10/30/13 21:52
Data File: o103010.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

IA-7

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Media Certification Report

Canister Number: 6L# 34246
Can#: 93545-34246
Date : 10/31/13 2:49
Data File: o103020.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

SS-7

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Media Certification Report

Canister Number: 6L# 35165
Can#: 93545-35165
Date : 10/30/13 22:53
Data File: o103012.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

IA-8

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Media Certification Report

Canister Number: 6L# 34321
Can#: 93545-34321
Date : 10/31/13 9:19
Data File: o103033.d

www.airtoxics.com
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Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	96.00	% Recovery

SS-8

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www.airtoxics.com
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Media Certification Report

Canister Number: 6L# 34188
Can#: 93545-34188
Date : 10/31/13 2:20
Data File: o103019.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

IA-9

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Media Certification Report

Canister Number: 6L# 35995
Can#: 93545-35995
Date : 10/30/13 21:22
Data File: o103009.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

SS-9

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www.airtoxics.com
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Media Certification Report

Canister Number: 6L# 5639
Can#: 93545-5639
Date : 10/31/13 4:52
Data File: o103024.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	92.00	% Recovery

IA-10

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www.airtoxics.com
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Media Certification Report

Canister Number: 6L# 34729
Can#: 93545-34729
Date : 10/30/13 19:18
Data File: o103005.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

IA-11

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Media Certification Report

Canister Number: 6L# 05704
Can#: 93545-05704
Date : 10/31/13 6:17
Data File: o103027.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

IA-12

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Media Certification Report

Canister Number: 6L# 33982
Can#: 93545-33982
Date : 10/31/13 7:18
Data File: o103029.d

www.airtoxics.com
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Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

IA-13

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Media Certification Report

Canister Number: 6L# 33930
Can#: 93545-33930
Date : 10/31/13 3:52
Data File: o103022.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

IA-14

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Media Certification Report

Canister Number: 6L# 12957
Can#: 93671-12957
Date : 10/28/13 21:03
Data File: o102809.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	96.00	% Recovery

IA-15

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www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 12955
Can#: 93671-12955
Date : 10/28/13 21:33
Data File: o102810.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	96.00	% Recovery

IA-16

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Media Certification Report

Canister Number: 6L# 34223
Can#: 93671-34223
Date : 11/05/13 12:58
Data File: o110434.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

IA-17

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www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 11891
Can#: 93671-11891
Date : 11/05/13 13:40
Data File: o110435.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	96.00	% Recovery

FD2

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Media Certification Report

Canister Number: 6L# 409
Can#: 93545-409
Date : 10/30/13 20:51
Data File: o103008.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	95.00	% Recovery

FD 1

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1-800-985-5955

Media Certification Report

Canister Number: 6L# 94602
Can#: 93545-94602
Date : 10/31/13 9:49
Data File: o103034.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

OA-1

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Media Certification Report

Canister Number: 6L# 5721
Can#: 93545-5721
Date : 10/31/13 1:50
Data File: o103018.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	100.00	% Recovery

OA-2

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www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L# 14873
Can#: 93545-14873
Date : 10/31/13 3:21
Data File: o103021.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
4-Bromofluorobenzene	460-00-4	98.00	% Recovery

Attachment D

Vapor Intrusion Laboratory Analytical Report

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11/19/2013
Mr. Casey McFall
ECC Horizon
8383 Craig Street
Suite 110
Indianapolis IN 46250

Project Name: Cherry St. Cleaners
Project #: W-S2510EC-I
Workorder #: 1311193

Dear Mr. Casey McFall

The following report includes the data for the above referenced project for sample(s) received on 11/12/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM 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: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1311193

Work Order Summary

CLIENT:	Mr. Casey McFall ECC Horizon 8383 Craig Street Suite 110 Indianapolis, IN 46250	**BILL TO:**	Accounts Payable ECC Horizon One Emery Ave. Randolph, NJ 07869
PHONE:	317-595-4400	**P.O. #**	031033+031054
FAX:		**PROJECT #**	W-S2510EC-I Cherry St. Cleaners
DATE RECEIVED:	11/12/2013	**CONTACT:**	Ausha Scott
DATE COMPLETED:	11/19/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	ISS:IA12:A110713	Modified TO-15 SIM	4.3 "Hg	5.1 psi
02A	ISS:IA13:A110713	Modified TO-15 SIM	4.1 "Hg	5.3 psi
03A	ISS:IA14:A110713	Modified TO-15 SIM	5.3 "Hg	5.1 psi
04A	ISS:IA15:A110713	Modified TO-15 SIM	5.3 "Hg	5.1 psi
05A	ISS:IA16:A110713	Modified TO-15 SIM	4.1 "Hg	5.1 psi
06A	ISS:IA17:A110713	Modified TO-15 SIM	0.3 psi	5 psi
07A	ISS:OA1:A110713	Modified TO-15 SIM	4.5 "Hg	4.7 psi
08A	ISS:OA2:A110713	Modified TO-15 SIM	4.7 "Hg	5.1 psi
09A	ISS:FD1:A110713	Modified TO-15 SIM	4.7 "Hg	5.1 psi
10A	ISS:FD2:A110713	Modified TO-15 SIM	4.5 "Hg	5.3 psi
11A	Lab Blank	Modified TO-15 SIM	NA	NA
12A	CCV	Modified TO-15 SIM	NA	NA
13A	LCS	Modified TO-15 SIM	NA	NA
13AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 11/19/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
ECC Horizon
Workorder# 1311193

Ten 6 Liter Summa Canister (SIM Certified) samples were received on November 12, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Summa canister for sample ISS:IA17:A110713 was leaking upon arrival. The client was notified and the analysis proceeded. Reported analyte concentrations are considered to be estimated.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

Client Sample ID: ISS:IA12:A110713

Lab ID#: 1311193-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.088	0.25	0.28
Toluene	0.031	0.28	0.12	1.1
Ethyl Benzene	0.031	0.031 J	0.14	0.13 J
m,p-Xylene	0.063	0.11	0.27	0.48
o-Xylene	0.031	0.042	0.14	0.18

Client Sample ID: ISS:IA13:A110713

Lab ID#: 1311193-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.099	0.25	0.32
Toluene	0.031	0.26	0.12	0.99
Tetrachloroethene	0.031	0.096	0.21	0.65
Ethyl Benzene	0.031	0.036	0.14	0.16
m,p-Xylene	0.063	0.12	0.27	0.53
o-Xylene	0.031	0.048	0.14	0.21

Client Sample ID: ISS:IA14:A110713

Lab ID#: 1311193-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	0.10	0.26	0.33
Toluene	0.033	0.38	0.12	1.4
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.13	0.28	0.55
o-Xylene	0.033	0.049	0.14	0.21

Client Sample ID: ISS:IA15:A110713

Lab ID#: 1311193-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	0.11	0.26	0.36

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

Client Sample ID: ISS:IA15:A110713

Lab ID#: 1311193-04A

Toluene	0.033	0.37	0.12	1.4
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.13	0.28	0.56
o-Xylene	0.033	0.049	0.14	0.21

Client Sample ID: ISS:IA16:A110713

Lab ID#: 1311193-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.12	0.25	0.38
Toluene	0.031	0.44	0.12	1.7
Ethyl Benzene	0.031	0.044	0.14	0.19
m,p-Xylene	0.062	0.14	0.27	0.62
o-Xylene	0.031	0.053	0.14	0.23

Client Sample ID: ISS:IA17:A110713

Lab ID#: 1311193-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.066	0.15	0.21	0.48
Trichloroethene	0.026	0.59	0.14	3.2
Toluene	0.026	1.1	0.099	4.0
Tetrachloroethene	0.026	0.70	0.18	4.8
Ethyl Benzene	0.026	0.30	0.11	1.3
m,p-Xylene	0.052	0.49	0.23	2.1
o-Xylene	0.026	0.15	0.11	0.64

Client Sample ID: ISS:OA1:A110713

Lab ID#: 1311193-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.11	0.25	0.35
Toluene	0.031	0.33	0.12	1.2
Ethyl Benzene	0.031	0.039	0.13	0.17

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

Client Sample ID: ISS:OA1:A110713

Lab ID#: 1311193-07A

m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.050	0.13	0.22

Client Sample ID: ISS:OA2:A110713

Lab ID#: 1311193-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.080	0.11	0.26	0.35
Toluene	0.032	0.40	0.12	1.5
Ethyl Benzene	0.032	0.037	0.14	0.16
m,p-Xylene	0.064	0.13	0.28	0.55
o-Xylene	0.032	0.046	0.14	0.20

Client Sample ID: ISS:FD1:A110713

Lab ID#: 1311193-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.032	0.51	0.12	1.9
Tetrachloroethene	0.032	4.1	0.22	28
Ethyl Benzene	0.032	0.036	0.14	0.16
m,p-Xylene	0.064	0.14	0.28	0.59
o-Xylene	0.032	0.071	0.14	0.31

Client Sample ID: ISS:FD2:A110713

Lab ID#: 1311193-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.032	0.50	0.12	1.9
Tetrachloroethene	0.032	0.11	0.22	0.73
Ethyl Benzene	0.032	0.046	0.14	0.20
m,p-Xylene	0.064	0.16	0.28	0.68
o-Xylene	0.032	0.060	0.14	0.26

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Client Sample ID: ISS:IA12:A110713

Lab ID#: 1311193-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111407sim**	**Date of Collection: 11/7/13 5:25:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/14/13 04:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.088	0.25	0.28
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.28	0.12	1.1
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.031 J	0.14	0.13 J
m,p-Xylene	0.063	0.11	0.27	0.48
o-Xylene	0.031	0.042	0.14	0.18
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: ISS:IA13:A110713

Lab ID#: 1311193-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111408sim**	**Date of Collection:**	**11/7/13 5:24:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/14/13 05:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.099	0.25	0.32
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.26	0.12	0.99
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.096	0.21	0.65
Ethyl Benzene	0.031	0.036	0.14	0.16
m,p-Xylene	0.063	0.12	0.27	0.53
o-Xylene	0.031	0.048	0.14	0.21
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: ISS:IA14:A110713

Lab ID#: 1311193-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111409sim**	**Date of Collection: 11/7/13 5:14:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/14/13 06:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.10	0.26	0.33
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.38	0.12	1.4
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.13	0.28	0.55
o-Xylene	0.033	0.049	0.14	0.21
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: ISS:IA15:A110713

Lab ID#: 1311193-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111410sim**	**Date of Collection: 11/7/13 5:15:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/14/13 07:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.11	0.26	0.36
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.37	0.12	1.4
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.13	0.28	0.56
o-Xylene	0.033	0.049	0.14	0.21
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: ISS:IA16:A110713

Lab ID#: 1311193-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111414sim**	**Date of Collection: 11/7/13 5:12:00 PM**	
Dil. Factor:	**1.56**	**Date of Analysis: 11/14/13 11:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.12	0.25	0.38
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.44	0.12	1.7
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.044	0.14	0.19
m,p-Xylene	0.062	0.14	0.27	0.62
o-Xylene	0.031	0.053	0.14	0.23
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: ISS:IA17:A110713

Lab ID#: 1311193-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111415sim**	**Date of Collection: 11/7/13 5:10:00 PM**	
Dil. Factor:	**1.31**	**Date of Analysis: 11/15/13 08:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.033	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.052	Not Detected
1,1-Dichloroethane	0.026	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.026	Not Detected	0.10	Not Detected
1,1,1-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Benzene	0.066	0.15	0.21	0.48
1,2-Dichloroethane	0.026	Not Detected	0.11	Not Detected
Trichloroethene	0.026	0.59	0.14	3.2
Toluene	0.026	1.1	0.099	4.0
1,1,2-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Tetrachloroethene	0.026	0.70	0.18	4.8
Ethyl Benzene	0.026	0.30	0.11	1.3
m,p-Xylene	0.052	0.49	0.23	2.1
o-Xylene	0.026	0.15	0.11	0.64
1,1,2,2-Tetrachloroethane	0.026	Not Detected	0.18	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.47	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: ISS:OA1:A110713

Lab ID#: 1311193-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111416sim**	**Date of Collection: 11/7/13 4:10:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/15/13 09:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.11	0.25	0.35
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.33	0.12	1.2
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.039	0.13	0.17
m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.050	0.13	0.22
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: ISS:OA2:A110713

Lab ID#: 1311193-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111411sim**	**Date of Collection: 11/7/13 4:05:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 11/14/13 07:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.080	0.11	0.26	0.35
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.40	0.12	1.5
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Ethyl Benzene	0.032	0.037	0.14	0.16
m,p-Xylene	0.064	0.13	0.28	0.55
o-Xylene	0.032	0.046	0.14	0.20
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: ISS:FD1:A110713

Lab ID#: 1311193-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111412sim**	**Date of Collection: 11/7/13 5:48:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 11/14/13 08:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.080	Not Detected	0.26	Not Detected
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.51	0.12	1.9
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	4.1	0.22	28
Ethyl Benzene	0.032	0.036	0.14	0.16
m,p-Xylene	0.064	0.14	0.28	0.59
o-Xylene	0.032	0.071	0.14	0.31
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: ISS:FD2:A110713

Lab ID#: 1311193-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111413sim**	**Date of Collection: 11/7/13 5:46:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 11/14/13 10:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.080	Not Detected	0.26	Not Detected
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.50	0.12	1.9
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.11	0.22	0.73
Ethyl Benzene	0.032	0.046	0.14	0.20
m,p-Xylene	0.064	0.16	0.28	0.68
o-Xylene	0.032	0.060	0.14	0.26
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311193-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111406sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/13 03:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1311193-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111402sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/13 10:43 AM**	

Compound	%Recovery
Vinyl Chloride	80
1,1-Dichloroethene	82
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	91
1,1,1-Trichloroethane	90
Benzene	70
1,2-Dichloroethane	93
Trichloroethene	71
Toluene	85
1,1,2-Trichloroethane	78
Tetrachloroethene	72
Ethyl Benzene	94
m,p-Xylene	98
o-Xylene	98
1,1,2,2-Tetrachloroethane	71
trans-1,2-Dichloroethene	88
Methyl tert-butyl ether	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCS

Lab ID#: 1311193-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111403sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/13 11:30 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	99	70-130
1,1-Dichloroethene	115	70-130
1,1-Dichloroethane	112	70-130
cis-1,2-Dichloroethene	113	70-130
1,1,1-Trichloroethane	111	70-130
Benzene	84	70-130
1,2-Dichloroethane	111	70-130
Trichloroethene	85	70-130
Toluene	101	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	84	70-130
Ethyl Benzene	110	70-130
m,p-Xylene	117	70-130
o-Xylene	116	70-130
1,1,2,2-Tetrachloroethane	80	70-130
trans-1,2-Dichloroethene	112	70-130
Methyl tert-butyl ether	122	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 1311193-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111404sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/14/13 12:18 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	98	70-130
1,1-Dichloroethene	114	70-130
1,1-Dichloroethane	111	70-130
cis-1,2-Dichloroethene	112	70-130
1,1,1-Trichloroethane	110	70-130
Benzene	83	70-130
1,2-Dichloroethane	111	70-130
Trichloroethene	84	70-130
Toluene	100	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	84	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	116	70-130
o-Xylene	114	70-130
1,1,2,2-Tetrachloroethane	79	70-130
trans-1,2-Dichloroethene	110	70-130
Methyl tert-butyl ether	122	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	106	70-130

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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

Project Manager Ausha Scott
Collected by: (Print and Sign) Eric Caldwell
Company ECC Horizon Email ecaldwell@echorizon.com
Address 8383 Craig St. #110 City Indianapolis State IN Zip 46250
Phone 317-595-4400 Fax 317-595-9899

Project Info:
P.O. # 031033 & 031054
Project # W-S2510EC-I
Project Name Cherry St. Cleaners

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	ISS:IA12:A110713	33982	11/7/13	1725	TO-15	-30+	-6		
02A	ISS:IA13:A110713	33930	11/7/13	1724	TO-15	-30+	-6		
03A	ISS:IA14:A110713	12957	11/7/13	1714	TO-15	-30+	-6		
04A	ISS:IA15:A110713	12955	11/7/13	1715	TO-15	-30+	-6.5		
05A	ISS:IA16:A110713	34223	11/7/13	1712	TO-15	-30+	-5		
06A	ISS:IA17:A110713	11891	11/7/13	1710	TO-15	-30+	-5		
07A	ISS:OA1:A110713	5721	11/7/13	1610	TO-15	-30+	-6		
08A	ISS:OA2:A110713	14873	11/7/13	1605	TO-15	-30+	-6.5		
09A	ISS:FD1:A110713	94602	11/7/13	1748	TO-15	-26.5	-5.5		
10A	ISS:FD2:A110713	409	11/7/13	1746	TO-15	-30+	-6		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Eric Caldwell 11/8/13 1030	[illegible] 11/8/13 1050
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:
Shipped via UPS
11/8/13 1030

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		NA	good	Yes No (None)	1311193

Form 1293 rev.11

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11/23/2013
Mr. Casey McFall
ECC Horizon
8383 Craig Street
Suite 110
Indianapolis IN 46250

Project Name: Cherry St. Cleaners
Project #: W-S2510EC-I
Workorder #: 1311192

Dear Mr. Casey McFall

The following report includes the data for the above referenced project for sample(s) received on 11/12/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM 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: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1311192

Work Order Summary

CLIENT:	Mr. Casey McFall ECC Horizon 8383 Craig Street Suite 110 Indianapolis, IN 46250	**BILL TO:**	Accounts Payable ECC Horizon One Emery Ave. Randolph, NJ 07869
PHONE:	317-595-4400	**P.O. #**	031033+031054
FAX:		**PROJECT #**	W-S2510EC-I Cherry St. Cleaners
DATE RECEIVED:	11/12/2013	**CONTACT:**	Ausha Scott
DATE COMPLETED:	11/23/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	ISS:SS1:A110713	Modified TO-15 SIM	4.5 "Hg	5.2 psi
02A	ISS:IA1:A110713	Modified TO-15 SIM	4.3 "Hg	5.1 psi
03A	ISS:SS2:A110713	Modified TO-15 SIM	4.7 "Hg	4.8 psi
04A	ISS:IA2:A110713	Modified TO-15 SIM	4.1 "Hg	5.3 psi
05A	ISS:SS3:A110713	Modified TO-15 SIM	11.4 "Hg	5.5 psi
06A	ISS:IA3:A110713	Modified TO-15 SIM	5.1 "Hg	5.3 psi
07A	ISS:SS4:A110713	Modified TO-15 SIM	4.1 "Hg	5.1 psi
08A	ISS:IA4:A110713	Modified TO-15 SIM	3.9 "Hg	5.1 psi
09A	ISS:SS5:A110713	Modified TO-15 SIM	4.1 "Hg	5.2 psi
10A	ISS:IA5:A110713	Modified TO-15 SIM	4.3 "Hg	5.2 psi
11A	ISS:SS6:A110713	Modified TO-15 SIM	4.1 "Hg	5.3 psi
12A	ISS:IA6:A110713	Modified TO-15 SIM	3.9 "Hg	5 psi
13A	ISS:SS7:A110713	Modified TO-15 SIM	3.9 "Hg	4.9 psi
14A	ISS:IA7:A110713	Modified TO-15 SIM	4.3 "Hg	5 psi
15A	ISS:SS8:A110713	Modified TO-15 SIM	3.9 "Hg	5.1 psi
16A	ISS:IA8:A110713	Modified TO-15 SIM	5.7 "Hg	5.2 psi
17A	ISS:SS9:A110713	Modified TO-15 SIM	4.5 "Hg	5.3 psi
18A	ISS:IA9:A110713	Modified TO-15 SIM	5.9 "Hg	5.2 psi
19A	ISS:IA10:A110713	Modified TO-15 SIM	3.7 "Hg	5.3 psi
20A	ISS:IA11:A110713	Modified TO-15 SIM	4.3 "Hg	5.1 psi
21A	Lab Blank	Modified TO-15 SIM	NA	NA
21B	Lab Blank	Modified TO-15 SIM	NA	NA
21C	Lab Blank	Modified TO-15 SIM	NA	NA

Continued on next page

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WORK ORDER #: 1311192

Work Order Summary

CLIENT:	Mr. Casey McFall ECC Horizon 8383 Craig Street Suite 110 Indianapolis, IN 46250	**BILL TO:**	Accounts Payable ECC Horizon One Emery Ave. Randolph, NJ 07869
PHONE:	317-595-4400	**P.O. #**	031033+031054
FAX:		**PROJECT #**	W-S2510EC-I Cherry St. Cleaners
DATE RECEIVED:	11/12/2013	**CONTACT:**	Ausha Scott
DATE COMPLETED:	11/23/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
22A	CCV	Modified TO-15 SIM	NA	NA
22B	CCV	Modified TO-15 SIM	NA	NA
22C	CCV	Modified TO-15 SIM	NA	NA
23A	LCS	Modified TO-15 SIM	NA	NA
23AA	LCSD	Modified TO-15 SIM	NA	NA
23B	LCS	Modified TO-15 SIM	NA	NA
23BB	LCSD	Modified TO-15 SIM	NA	NA
23C	LCS	Modified TO-15 SIM	NA	NA
23CC	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/23/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
ECC Horizon
Workorder# 1311192

Twenty 6 Liter Summa Canister (SIM Certified) samples were received on November 12, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

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

Client Sample ID: ISS:SS1:A110713

Lab ID#: 1311192-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.032	0.45	0.12	1.7
Tetrachloroethene	0.032	3.9	0.22	26
Ethyl Benzene	0.032	0.034	0.14	0.15
m,p-Xylene	0.064	0.13	0.28	0.57
o-Xylene	0.032	0.071	0.14	0.31

Client Sample ID: ISS:IA1:A110713

Lab ID#: 1311192-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.10	0.25	0.32
Toluene	0.031	2.5	0.12	9.4
Tetrachloroethene	0.031	0.057	0.21	0.38
Ethyl Benzene	0.031	0.078	0.14	0.34
m,p-Xylene	0.063	0.29	0.27	1.3
o-Xylene	0.031	0.10	0.14	0.44

Client Sample ID: ISS:SS2:A110713

Lab ID#: 1311192-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.040	0.040	0.10
Benzene	0.078	0.10	0.25	0.33
Toluene	0.031	3.4	0.12	13
Tetrachloroethene	0.031	12	0.21	82
Ethyl Benzene	0.031	0.091	0.14	0.39
m,p-Xylene	0.063	0.35	0.27	1.5
o-Xylene	0.031	0.13	0.14	0.55

Client Sample ID: ISS:IA2:A110713

Lab ID#: 1311192-04A

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

Client Sample ID: ISS:IA2:A110713

Lab ID#: 1311192-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.098	0.25	0.31
Trichloroethene	0.031	0.032	0.17	0.17
Toluene	0.031	0.45	0.12	1.7
Tetrachloroethene	0.031	0.053	0.21	0.36
Ethyl Benzene	0.031	0.034	0.14	0.14
m,p-Xylene	0.063	0.067	0.27	0.29

Client Sample ID: ISS:SS3:A110713

Lab ID#: 1311192-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.022	0.19	0.057	0.49
Benzene	0.11	0.30	0.35	0.95
Toluene	0.044	3.2	0.17	12
Tetrachloroethene	0.044	0.60	0.30	4.1
Ethyl Benzene	0.044	0.086	0.19	0.37
m,p-Xylene	0.089	0.24	0.38	1.0
o-Xylene	0.044	0.089	0.19	0.39

Client Sample ID: ISS:IA3:A110713

Lab ID#: 1311192-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.082	0.098	0.26	0.31
Toluene	0.033	0.50	0.12	1.9
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.15	0.28	0.64
o-Xylene	0.033	0.056	0.14	0.24

Client Sample ID: ISS:SS4:A110713

Lab ID#: 1311192-07A

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

Client Sample ID: ISS:SS4:A110713

Lab ID#: 1311192-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.031	0.44	0.12	1.6
Tetrachloroethene	0.031	0.11	0.21	0.73
Ethyl Benzene	0.031	0.039	0.14	0.17
m,p-Xylene	0.062	0.13	0.27	0.58
o-Xylene	0.031	0.056	0.14	0.24

Client Sample ID: ISS:IA4:A110713

Lab ID#: 1311192-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.20	0.25	0.63
Toluene	0.031	0.87	0.12	3.3
Ethyl Benzene	0.031	0.065	0.13	0.28
m,p-Xylene	0.062	0.24	0.27	1.0
o-Xylene	0.031	0.084	0.13	0.36

Client Sample ID: ISS:SS5:A110713

Lab ID#: 1311192-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.028	0.040	0.072
Toluene	0.031	0.45	0.12	1.7
Tetrachloroethene	0.031	0.042	0.21	0.29
Ethyl Benzene	0.031	0.042	0.14	0.18
m,p-Xylene	0.063	0.16	0.27	0.72
o-Xylene	0.031	0.066	0.14	0.29

Client Sample ID: ISS:IA5:A110713

Lab ID#: 1311192-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.079	0.12	0.25	0.39

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

Client Sample ID: ISS:IA5:A110713

Lab ID#: 1311192-10A

Toluene	0.032	0.49	0.12	1.8
Ethyl Benzene	0.032	0.044	0.14	0.19
m,p-Xylene	0.063	0.16	0.27	0.69
o-Xylene	0.032	0.062	0.14	0.27

Client Sample ID: ISS:SS6:A110713

Lab ID#: 1311192-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.031	0.59	0.12	2.2
Ethyl Benzene	0.031	0.056	0.14	0.24
m,p-Xylene	0.063	0.17	0.27	0.76
o-Xylene	0.031	0.076	0.14	0.33

Client Sample ID: ISS:IA6:A110713

Lab ID#: 1311192-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.077	0.12	0.24	0.37
Toluene	0.031	0.35	0.12	1.3
Ethyl Benzene	0.031	0.043	0.13	0.18
m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.051	0.13	0.22

Client Sample ID: ISS:SS7:A110713

Lab ID#: 1311192-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.031	0.45	0.12	1.7
Tetrachloroethene	0.031	0.033	0.21	0.22
Ethyl Benzene	0.031	0.050	0.13	0.22
m,p-Xylene	0.061	0.17	0.26	0.76
o-Xylene	0.031	0.073	0.13	0.32

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

Client Sample ID: ISS:IA7:A110713

Lab ID#: 1311192-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.11	0.25	0.34
Toluene	0.031	0.34	0.12	1.3
Ethyl Benzene	0.031	0.043	0.14	0.18
m,p-Xylene	0.062	0.13	0.27	0.58
o-Xylene	0.031	0.048	0.14	0.21

Client Sample ID: ISS:SS8:A110713

Lab ID#: 1311192-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.032	0.040	0.083
Toluene	0.031	0.79	0.12	3.0
Tetrachloroethene	0.031	0.28	0.21	1.9
Ethyl Benzene	0.031	0.048	0.13	0.21
m,p-Xylene	0.062	0.20	0.27	0.85
o-Xylene	0.031	0.074	0.13	0.32

Client Sample ID: ISS:IA8:A110713

Lab ID#: 1311192-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.084	0.11	0.27	0.36
Toluene	0.033	0.36	0.12	1.3
Ethyl Benzene	0.033	0.056	0.14	0.24
m,p-Xylene	0.067	0.20	0.29	0.86
o-Xylene	0.033	0.079	0.14	0.34

Client Sample ID: ISS:SS9:A110713

Lab ID#: 1311192-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.045	0.041	0.11

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

Client Sample ID: ISS:SS9:A110713

Lab ID#: 1311192-17A

Benzene	0.080	0.15	0.26	0.47
Toluene	0.032	1.3	0.12	4.8
Tetrachloroethene	0.032	0.65	0.22	4.4
Ethyl Benzene	0.032	0.13	0.14	0.57
m,p-Xylene	0.064	0.36	0.28	1.6
o-Xylene	0.032	0.12	0.14	0.51

Client Sample ID: ISS:IA9:A110713

Lab ID#: 1311192-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.084	0.14	0.27	0.44
Toluene	0.034	0.48	0.13	1.8
Ethyl Benzene	0.034	0.043	0.15	0.19
m,p-Xylene	0.068	0.14	0.29	0.63
o-Xylene	0.034	0.052	0.15	0.22

Client Sample ID: ISS:IA10:A110713

Lab ID#: 1311192-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.091	0.25	0.29
Toluene	0.031	0.27	0.12	1.0
Ethyl Benzene	0.031	0.036	0.13	0.16
m,p-Xylene	0.062	0.12	0.27	0.51
o-Xylene	0.031	0.045	0.13	0.20

Client Sample ID: ISS:IA11:A110713

Lab ID#: 1311192-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.078	0.097	0.25	0.31
Toluene	0.031	0.30	0.12	1.1
Ethyl Benzene	0.031	0.039	0.14	0.17

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

Client Sample ID: ISS:IA11:A110713

Lab ID#: 1311192-20A

m,p-Xylene	0.063	0.13	0.27	0.55
o-Xylene	0.031	0.047	0.14	0.20

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Client Sample ID: ISS:SS1:A110713

Lab ID#: 1311192-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111815sim**	**Date of Collection: 11/7/13 5:48:00 PM**	
Dil. Factor:	**1.59**	**Date of Analysis: 11/18/13 10:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.080	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.45	0.12	1.7
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	3.9	0.22	26
Ethyl Benzene	0.032	0.034	0.14	0.15
m,p-Xylene	0.064	0.13	0.28	0.57
o-Xylene	0.032	0.071	0.14	0.31
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: ISS:IA1:A110713

Lab ID#: 1311192-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111816sim**	**Date of Collection: 11/7/13 5:48:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/18/13 11:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.10	0.25	0.32
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	2.5	0.12	9.4
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.057	0.21	0.38
Ethyl Benzene	0.031	0.078	0.14	0.34
m,p-Xylene	0.063	0.29	0.27	1.3
o-Xylene	0.031	0.10	0.14	0.44
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: ISS:SS2:A110713

Lab ID#: 1311192-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111817sim**	**Date of Collection: 11/7/13 6:04:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/19/13 08:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.040	0.040	0.10
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.10	0.25	0.33
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	3.4	0.12	13
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	12	0.21	82
Ethyl Benzene	0.031	0.091	0.14	0.39
m,p-Xylene	0.063	0.35	0.27	1.5
o-Xylene	0.031	0.13	0.14	0.55
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: ISS:IA2:A110713

Lab ID#: 1311192-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111906sim**	**Date of Collection: 11/7/13 6:04:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/19/13 02:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.098	0.25	0.31
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	0.032	0.17	0.17
Toluene	0.031	0.45	0.12	1.7
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.053	0.21	0.36
Ethyl Benzene	0.031	0.034	0.14	0.14
m,p-Xylene	0.063	0.067	0.27	0.29
o-Xylene	0.031	Not Detected	0.14	Not Detected
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: ISS:SS3:A110713

Lab ID#: 1311192-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111907sim**	**Date of Collection: 11/7/13 6:08:00 PM**	
Dil. Factor:	**2.22**	**Date of Analysis: 11/19/13 03:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.022	0.19	0.057	0.49
1,1-Dichloroethene	0.022	Not Detected	0.088	Not Detected
1,1-Dichloroethane	0.044	Not Detected	0.18	Not Detected
cis-1,2-Dichloroethene	0.044	Not Detected	0.18	Not Detected
1,1,1-Trichloroethane	0.044	Not Detected	0.24	Not Detected
Benzene	0.11	0.30	0.35	0.95
1,2-Dichloroethane	0.044	Not Detected	0.18	Not Detected
Trichloroethene	0.044	Not Detected	0.24	Not Detected
Toluene	0.044	3.2	0.17	12
1,1,2-Trichloroethane	0.044	Not Detected	0.24	Not Detected
Tetrachloroethene	0.044	0.60	0.30	4.1
Ethyl Benzene	0.044	0.086	0.19	0.37
m,p-Xylene	0.089	0.24	0.38	1.0
o-Xylene	0.044	0.089	0.19	0.39
1,1,2,2-Tetrachloroethane	0.044	Not Detected	0.30	Not Detected
trans-1,2-Dichloroethene	0.22	Not Detected	0.88	Not Detected
Methyl tert-butyl ether	0.22	Not Detected	0.80	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: ISS:IA3:A110713

Lab ID#: 1311192-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111908sim**	**Date of Collection: 11/7/13 6:08:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/19/13 04:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.098	0.26	0.31
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.50	0.12	1.9
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.15	0.28	0.64
o-Xylene	0.033	0.056	0.14	0.24
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: ISS:SS4:A110713

Lab ID#: 1311192-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111909sim**	**Date of Collection: 11/7/13 5:46:00 PM**	
Dil. Factor:	**1.56**	**Date of Analysis: 11/19/13 05:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.44	0.12	1.6
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.11	0.21	0.73
Ethyl Benzene	0.031	0.039	0.14	0.17
m,p-Xylene	0.062	0.13	0.27	0.58
o-Xylene	0.031	0.056	0.14	0.24
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: ISS:IA4:A110713

Lab ID#: 1311192-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111910sim**	**Date of Collection: 11/7/13 5:38:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/19/13 05:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.20	0.25	0.63
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.87	0.12	3.3
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.065	0.13	0.28
m,p-Xylene	0.062	0.24	0.27	1.0
o-Xylene	0.031	0.084	0.13	0.36
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: ISS:SS5:A110713

Lab ID#: 1311192-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111911sim**	**Date of Collection: 11/7/13 5:36:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/19/13 06:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.028	0.040	0.072
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.45	0.12	1.7
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.042	0.21	0.29
Ethyl Benzene	0.031	0.042	0.14	0.18
m,p-Xylene	0.063	0.16	0.27	0.72
o-Xylene	0.031	0.066	0.14	0.29
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: ISS:IA5:A110713

Lab ID#: 1311192-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111912sim**	**Date of Collection: 11/7/13 5:36:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/19/13 07:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.079	0.12	0.25	0.39
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.49	0.12	1.8
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.21	Not Detected
Ethyl Benzene	0.032	0.044	0.14	0.19
m,p-Xylene	0.063	0.16	0.27	0.69
o-Xylene	0.032	0.062	0.14	0.27
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: ISS:SS6:A110713

Lab ID#: 1311192-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111913sim**	**Date of Collection: 11/7/13 5:34:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/19/13 08:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.59	0.12	2.2
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.056	0.14	0.24
m,p-Xylene	0.063	0.17	0.27	0.76
o-Xylene	0.031	0.076	0.14	0.33
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: ISS:IA6:A110713

Lab ID#: 1311192-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111914sim**	**Date of Collection: 11/7/13 5:34:00 PM**	
Dil. Factor:	**1.54**	**Date of Analysis: 11/19/13 09:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.077	0.12	0.24	0.37
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.16	Not Detected
Toluene	0.031	0.35	0.12	1.3
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.043	0.13	0.18
m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.051	0.13	0.22
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: ISS:SS7:A110713

Lab ID#: 1311192-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111915sim**	**Date of Collection: 11/7/13 5:32:00 PM**	
Dil. Factor:	**1.53**	**Date of Analysis: 11/19/13 10:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.076	Not Detected	0.24	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.16	Not Detected
Toluene	0.031	0.45	0.12	1.7
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.033	0.21	0.22
Ethyl Benzene	0.031	0.050	0.13	0.22
m,p-Xylene	0.061	0.17	0.26	0.76
o-Xylene	0.031	0.073	0.13	0.32
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.55	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: ISS:IA7:A110713

Lab ID#: 1311192-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112013sim**	**Date of Collection: 11/7/13 5:32:00 PM**	
Dil. Factor:	**1.56**	**Date of Analysis: 11/20/13 08:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.11	0.25	0.34
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.34	0.12	1.3
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.043	0.14	0.18
m,p-Xylene	0.062	0.13	0.27	0.58
o-Xylene	0.031	0.048	0.14	0.21
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: ISS:SS8:A110713

Lab ID#: 1311192-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111916sim**	**Date of Collection: 11/7/13 5:31:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/19/13 10:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.032	0.040	0.083
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.79	0.12	3.0
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.28	0.21	1.9
Ethyl Benzene	0.031	0.048	0.13	0.21
m,p-Xylene	0.062	0.20	0.27	0.85
o-Xylene	0.031	0.074	0.13	0.32
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: ISS:IA8:A110713

Lab ID#: 1311192-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111917sim**	**Date of Collection: 11/7/13 5:30:00 PM**	
Dil. Factor:	**1.67**	**Date of Analysis: 11/20/13 07:46 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.084	0.11	0.27	0.36
1,2-Dichloroethane	0.033	Not Detected	0.14	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.36	0.12	1.3
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.23	Not Detected
Ethyl Benzene	0.033	0.056	0.14	0.24
m,p-Xylene	0.067	0.20	0.29	0.86
o-Xylene	0.033	0.079	0.14	0.34
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: ISS:SS9:A110713

Lab ID#: 1311192-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111918sim**	**Date of Collection: 11/7/13 5:30:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 11/20/13 08:48 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.045	0.041	0.11
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.080	0.15	0.26	0.47
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	1.3	0.12	4.8
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.65	0.22	4.4
Ethyl Benzene	0.032	0.13	0.14	0.57
m,p-Xylene	0.064	0.36	0.28	1.6
o-Xylene	0.032	0.12	0.14	0.51
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: ISS:IA9:A110713

Lab ID#: 1311192-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112009sim**	**Date of Collection: 11/7/13 5:29:00 PM**	
Dil. Factor:	**1.69**	**Date of Analysis: 11/20/13 04:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Benzene	0.084	0.14	0.27	0.44
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.48	0.13	1.8
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Ethyl Benzene	0.034	0.043	0.15	0.19
m,p-Xylene	0.068	0.14	0.29	0.63
o-Xylene	0.034	0.052	0.15	0.22
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: ISS:IA10:A110713

Lab ID#: 1311192-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112010sim**	**Date of Collection: 11/7/13 5:27:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 11/20/13 05:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.091	0.25	0.29
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.27	0.12	1.0
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.036	0.13	0.16
m,p-Xylene	0.062	0.12	0.27	0.51
o-Xylene	0.031	0.045	0.13	0.20
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: ISS:IA11:A110713

Lab ID#: 1311192-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112011sim**	**Date of Collection: 11/7/13 5:28:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/20/13 06:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.097	0.25	0.31
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.30	0.12	1.1
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.039	0.14	0.17
m,p-Xylene	0.063	0.13	0.27	0.55
o-Xylene	0.031	0.047	0.14	0.20
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311192-21A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111808sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 03:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311192-21B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111905sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 01:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311192-21C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112007sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/20/13 02:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	126	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1311192-22A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:19 AM**	

Compound	%Recovery
Vinyl Chloride	84
1,1-Dichloroethene	89
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	97
1,1,1-Trichloroethane	99
Benzene	71
1,2-Dichloroethane	98
Trichloroethene	73
Toluene	89
1,1,2-Trichloroethane	78
Tetrachloroethene	74
Ethyl Benzene	98
m,p-Xylene	102
o-Xylene	104
1,1,2,2-Tetrachloroethane	70
trans-1,2-Dichloroethene	93
Methyl tert-butyl ether	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: CCV

Lab ID#: 1311192-22B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111902sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 10:08 AM**	

Compound	%Recovery
Vinyl Chloride	84
1,1-Dichloroethene	88
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	96
1,1,1-Trichloroethane	98
Benzene	71
1,2-Dichloroethane	97
Trichloroethene	72
Toluene	88
1,1,2-Trichloroethane	78
Tetrachloroethene	74
Ethyl Benzene	97
m,p-Xylene	101
o-Xylene	102
1,1,2,2-Tetrachloroethane	71
trans-1,2-Dichloroethene	92
Methyl tert-butyl ether	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: CCV

Lab ID#: 1311192-22C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112003sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/20/13 10:53 AM**	

Compound	%Recovery
Vinyl Chloride	82
1,1-Dichloroethene	85
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	93
1,1,1-Trichloroethane	96
Benzene	70
1,2-Dichloroethane	97
Trichloroethene	71
Toluene	87
1,1,2-Trichloroethane	77
Tetrachloroethene	73
Ethyl Benzene	97
m,p-Xylene	101
o-Xylene	102
1,1,2,2-Tetrachloroethane	71
trans-1,2-Dichloroethene	90
Methyl tert-butyl ether	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCS

Lab ID#: 1311192-23A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111805sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 12:12 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
1,1-Dichloroethene	113	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	108	70-130
1,1,1-Trichloroethane	110	70-130
Benzene	77	70-130
1,2-Dichloroethane	107	70-130
Trichloroethene	80	70-130
Toluene	95	70-130
1,1,2-Trichloroethane	84	70-130
Tetrachloroethene	80	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	110	70-130
o-Xylene	110	70-130
1,1,2,2-Tetrachloroethane	74	70-130
trans-1,2-Dichloroethene	107	70-130
Methyl tert-butyl ether	124	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: LCSD

Lab ID#: 1311192-23AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111806sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 01:39 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
1,1-Dichloroethene	114	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	108	70-130
1,1,1-Trichloroethane	110	70-130
Benzene	76	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	79	70-130
Toluene	94	70-130
1,1,2-Trichloroethane	83	70-130
Tetrachloroethene	79	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	109	70-130
o-Xylene	108	70-130
1,1,2,2-Tetrachloroethane	72	70-130
trans-1,2-Dichloroethene	106	70-130
Methyl tert-butyl ether	125	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 1311192-23B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111903sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 11:21 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	94	70-130
1,1-Dichloroethene	113	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	108	70-130
1,1,1-Trichloroethane	110	70-130
Benzene	77	70-130
1,2-Dichloroethane	107	70-130
Trichloroethene	80	70-130
Toluene	95	70-130
1,1,2-Trichloroethane	84	70-130
Tetrachloroethene	78	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	109	70-130
o-Xylene	109	70-130
1,1,2,2-Tetrachloroethane	75	70-130
trans-1,2-Dichloroethene	107	70-130
Methyl tert-butyl ether	124	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 1311192-23BB

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e111904sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 12:11 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	93	70-130
1,1-Dichloroethene	111	70-130
1,1-Dichloroethane	108	70-130
cis-1,2-Dichloroethene	108	70-130
1,1,1-Trichloroethane	109	70-130
Benzene	76	70-130
1,2-Dichloroethane	107	70-130
Trichloroethene	80	70-130
Toluene	95	70-130
1,1,2-Trichloroethane	82	70-130
Tetrachloroethene	78	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	108	70-130
o-Xylene	107	70-130
1,1,2,2-Tetrachloroethane	75	70-130
trans-1,2-Dichloroethene	106	70-130
Methyl tert-butyl ether	123	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCS

Lab ID#: 1311192-23C

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112005sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/20/13 12:45 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
1,1-Dichloroethene	109	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	107	70-130
1,1,1-Trichloroethane	111	70-130
Benzene	78	70-130
1,2-Dichloroethane	108	70-130
Trichloroethene	79	70-130
Toluene	96	70-130
1,1,2-Trichloroethane	83	70-130
Tetrachloroethene	79	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	112	70-130
o-Xylene	112	70-130
1,1,2,2-Tetrachloroethane	76	70-130
trans-1,2-Dichloroethene	106	70-130
Methyl tert-butyl ether	123	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 1311192-23CC

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e112006sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/20/13 01:50 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
1,1-Dichloroethene	109	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	108	70-130
1,1,1-Trichloroethane	112	70-130
Benzene	76	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	78	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	82	70-130
Tetrachloroethene	78	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	109	70-130
o-Xylene	109	70-130
1,1,2,2-Tetrachloroethane	74	70-130
trans-1,2-Dichloroethene	107	70-130
Methyl tert-butyl ether	125	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	108	70-130

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Phone 317-595-4400 Fax 317-595-9899

Project Info:
P.O. # 031033 & 031054
Project # W-S2510EC-I
Project Name Cherry St. Cleaners

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	ISS:SS1:A110713	33889	11/7/13	1748	TO-15	-30	-4.5		
02A	ISS:IA1:A110713	933	11/7/13	1748	TO-15	-30+	-5.5		
03A	ISS:SS2:A110713	20998	11/7/13	1804	TO-15	-30+	-6.5		
04A	ISS:IA2:A110713	33986	11/7/13	1804	TO-15	-30+	-5.5		
05A	ISS:SS3:A110713	25259	11/7/13	1808	TO-15	-27	-13.5		
06A	ISS:IA3:A110713	34486	11/7/13	1808	TO-15	-30+	-6.5		
07A	ISS:SS4:A110713	31157	11/7/13	1746	TO-15	-30+	-6		
08A	ISS:IA4:A110713	35244	11/7/13	1738	TO-15	-30+	-5		
09A	ISS:SS5:A110713	4206	11/7/13	1736	TO-15	-30	-5		
10A	ISS:IA5:A110713	20943	11/7/13	1736	TO-15	-30+	-6.5		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
11/8/13 1030	11/12/13 1050
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:
Shipped via UPS
11/8/13 1030

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		NA	good	Yes No (None)	1311192

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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

Project Manager Aisha Scott

Collected by: (Print and Sign) Eric Caldwell

Company ECC Horizon Email ecaldwell@ecchorizon.com

Address 8383 Craig St. #110 City Indianapolis State IN Zip 46250

Phone 317-595-4400 Fax 317-595-9899

Project Info:
P.O. # 031033 + 031054
Project # W-S2510EC-I
Project Name Cherry St. Cleaners

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	ISS:SS6:A 110713	34425	11/7/13	1734	TO-15	-30+	-5		
12A	ISS:IA6:A 110713	30838	11/7/13	1734	TO-15	-30+	-5		
13A	ISS:SS7:A 110713	35165	11/7/13	1732	TO-15	-30	-5.5		
14A	ISS:IA7:A 110713	34246	11/7/13	1732	TO-15	-30+	-6.5		
15A	ISS:SS8:A 110713	34188	11/7/13	1731	TO-15	-29.5	-5.5		
16A	ISS:IA8:A 110713	34321	11/7/13	1730	TO-15	-30+	-6.5		
17A	ISS:SS9:A 110713	5039	11/7/13	1730	TO-15	-30	-5.5		
18A	ISS:IA9:A 110713	35995	11/7/13	1729	TO-15	-30+	-7		
19A	ISS:IA10:A 110713	34729	11/7/13	1727	TO-15	-29	-5		
20A	ISS:IA11:A 110713	5704	11/7/13	1728	TO-15	-30+	-5		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Eric Caldwell 11/8/13 1030	[illegible] MTL 11/12/13 1050
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:
Shipped via UPS
11/8/13 1030

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact? Yes / No / None	Work Order #
	UPS		NA	good	None	1311192

Form 1293 rev.11