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General Electric
WAD009278706
HZW 6.7.1

GE
Aviation

James W. Sumner, Manager
Group Environmental Programs

One Neumann Way, M/D T165
Cincinnati, OH 45215

T 513-672-3986, DC 8*892-3986
F 513 552-8918, DC 8*892-8918
jim.sumner@ge.com

April 3, 2007

Mr. Dean Yasuda
Washington Department of Ecology
Northwest Regional Office
3190 – 160th Avenue S.E.
Bellevue, Washington 98008-5452

Dear Mr. Yasuda:

Attached please find a report prepared by RETEC regarding the February, 2007 air sampling event at the former GE building.

As we have communicated via e-mail GE expects to proceed with installation of a sub-slab depressurization system. Assuming all required permits are obtained GE anticipates installation beginning in May of 2007.

Please note GE has also collected one additional indoor air sample inside the Hudson Bay Insulation office at the request of the tenant. This sample was collected March 13, 2007. We will forward the results of that analysis as soon as they become available.

There are no additional air sampling events planned at this time until completion of the sub-slab depressurization system.

Should you have any questions please feel free to contact me at 513 672-3986 or Jamie Stevens at (206) 624-9349.

Sincerely,

James W. Sumner

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James W. Sumner, Manager
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Should you have any questions please feel free to contact me at 513 672-3986 or Jamie Stevens at (206) 624-9349.

Sincerely,

James W. Sumner

Attachment – Air Sampling Report

cc: Tong Li – Groundwater Solutions
Bill Teplicky, McKinstry Co.
Bill Joyce – Salter Joyce Ziker
Linda Baker, Jamie Stevens – RETEC

The RETEC Group, Inc.
1011 S.W. Klickitat Way, Suite 207
Seattle, WA 98134-1162

(206) 624-9349 Phone
(206) 624-2839 Fax
www.retec.com

April 3, 2007

Mr. Dean Yasuda
Department of Ecology
3190 160th Ave. SE
Bellevue, WA 98008

RE: February 2007 Indoor Air Sampling – Former GE Building, Seattle, WA

Dear Mr. Yasuda:

General Electric Company's Aviation division (GE) is currently evaluating environmental impacts to soil and groundwater at, and downgradient of, its former facility at 220 South Dawson Street in Seattle, Washington. As a part of that investigation GE completed a fourth round of indoor air sampling in this facility.

This report presents the results of the February 2007 indoor and ambient air sampling performed in accordance with our August 10, 2006 letter, which references the *Work Plan for Evaluation of Subsurface Vapor Intrusion, Revision 2*, dated November 1, 2005. The scope of work included collection of air samples from indoor and outdoor sampling locations, to provide an update to results obtained in December 2005 and give information on the potential for seasonal variations in indoor air quality in the building.

Sampling Methods

On Friday February 16, 2007, Jamie Stevens (RETEC) conducted a site walk-through to observe and mitigate potential sources of volatile organic compounds (VOC) contamination in indoor air. Potential sources of VOC were identified at Puget Pipe Supply and Hudson Bay Insulation; all potential sources were placed in sealed plastic bags. Prior to deploying sample canisters on February 19, a site walk-through was conducted to confirm that all potential sources observed were sealed and that no new potential sources of VOC were identified. Copies of field notes are included in Attachment A.

Field work for the air sampling was conducted on Monday February 19, 2007. A total of nine air samples were collected for this evaluation. These consisted of four ambient air samples, four indoor air samples, and one field duplicate sample. The sample locations are shown in Figure 1.

All indoor and ambient sampling was also conducted in accordance with the standard operating procedures discussed in the Work Plan. All sampling canisters were individually certified clean by GC/MS analysis before being used in the field. Certification of cleaning and evacuation was noted prior to collection of samples. A vacuum gauge was used to check both the initial and final vacuum in the canisters; the initial vacuum was checked to ensure mechanical integrity of the canisters and was approximately 30 pounds per square inch (psi). The final vacuum after sample collection read from approximately 8.0 to 3.5 psi, and was verified upon receipt by the laboratory to ensure sample integrity during return shipment (Table 1).

The sample ID, sample date, sample time and canister number were recorded on the sampling forms and in the field notes. Signs were also posted on each unit stating the purpose of the sampler and asking that no smoking occur. In addition, starting and ending vacuum readings were recorded for each canister, and recorded on the sample labels and the Chain of Custody for laboratory quality control purposes. Once samples were collected, they were stored according to the method protocol and shipped to the analytical laboratory on the next business day under Chain of Custody procedures. Copies of certified laboratory reports are included in Attachment A, along with copies of the field forms. A photographic record of the sampling events is provided in Attachment B.

All sampling was conducted concurrent on February 19, 2007. The samples were collected over an eight-hour time period to capture a normal worker's exposure. This event was conducted during the normal operating hours for all of the businesses in the former GE building.

The indoor samples were set up and collected in accordance with the Work Plan. Six-liter Summa canisters with eight-hour flow controllers were used to collect each indoor air sample during the field event. The canisters and controllers were SIM-certified at the laboratory. The canisters were placed approximately 4 to 5 feet above the ground (at approximate breathing zone height).

A field duplicate sample was collected at the IA-4 location. Two canisters were set up on top of boxes inside the Hudson Bay Insulation warehouse. A photograph of the setup is shown in Attachment B. The field duplicate was used in data validation for quality control/quality assurance purposes.

Ambient Air Results

PCE was detected in the ambient air samples at AA-4 with a concentration of 0.26 $\mu g/m^3$, below the MTCA Method C Indoor Air Screening Level of 4.2 $\mu g/m^3$. No other CVOCs were detected. Results are summarized in Table 2.

The wind during on February 19 was generally from a South direction, based on field observations. Wind speed and direction data were obtained from Boeing Field and from the Puget Sound Clean Air Agency (PSCAA) station located at 4752 East Marginal Way South, less than one-half mile from the former GE facility. Wind roses showing the wind speed and direction recorded at the two locations throughout the day are shown in Figure 2. These measurements confirm that wind was generally from a southerly direction, with the majority of the measurements from the South direction. Based on the wind data for the test period, samples AA-1 and AA-3 are representative of upwind conditions at the former GE facility.

Indoor Air Results

PCE, TCE and 1,1,1-trichloroethane (TCA) were detected in indoor air samples. Table 2 shows the results of the February, 2007 sampling event and the December 2005, August, and November 2006 sampling events. During the February 2007 sampling event PCE was detected in the

downwind location AA-4. This data was not corrected since PCE was detected in the downwind sample location and not in any upwind sample locations. Table 2 shows the raw (December 2005, August 2006, November 2006, and February 2007) and "corrected" indoor air results (December 2005 and August 2006).

The PCE concentrations during the February 2007 event ranged from below the laboratory detection limit of 0.22 to 0..25 $\mu g/m^3$, well below the MTCA Method C cleanup level of 4.2 $\mu g/m^3$. PCE was only detected in one sample location (IA-5) in February 2007. IA-5 has had detections of PCE at similar concentrations in each of the previous sampling events.

1,1,1-TCA was reported in one sample, IA-5 detected at 0.37 $\mu g/m^3$, the detection was well below the MTCA Method C cleanup level of 2,205 $\mu g/m^3$. 1,1,1-TCA has been detected at this sample location (IA-5) at similar concentrations during all previous sampling events. 1,1,1-TCA was not detected in any of the other sample locations.

TCE concentrations in indoor air samples ranged from below the laboratory detection limit of 0.17 (IA-1) to 0.99 (IA-5) $\mu g/m^3$ during the February 2007 sampling event. Detections at all sample locations excluding IA-1 were greater than the MTCA Method C cleanup level of 0.22 $\mu g/m^3$. The detection at IA-5 (0.99 $\mu g/m^3$) is above the remediation level of 0.96 $\mu g/m^3$. This number takes into account actual exposure frequencies and durations for the workers in the building, rather than assuming 24-hour a day exposures as the MTCA Method C value assumes.

Summary and Next Steps

GE has now completed four rounds of air sampling at the 220 South Dawson Street facility. Of the eight compounds evaluated, only TCE was found above DOE screening and remediation levels. Figure 3 shows a graph of TCE concentrations over time. Sample locations IA-1, IA-4, and IA-5 have had at least one detection above the site-specific remediation value of 0.96 $\mu g/m^3$.

If you have any questions or comments, please call me at (206) 624-9349 or Jim Sumner at (513) 672-3986.

Sincerely,
The RETEC Group, Inc.

Jamie C. Stevens

Jamie C. Stevens
Project Manager

cc: Jim Sumner – GE
Bill Teplicky/Alex Cordas – KeyMac
Bill Joyce – Salter Joyce Ziker
Tong Li – Groundwater Solutions
Linda Baker, John Finn, File GE001-19314 – RETEC

Tables

Table 1 Summary of Sample Collection Information – February 19 2007

Location ID	Canister ID	Initial Vacuum Readings		Final Vacuum Readings		Final Vacuum Reading at Laboratory	Start Time	End Time	Duration (hours)	Analysis
		Vacuum Gauge	Flow Controller	Vacuum Gauge	Flow Controller					
AA-1	21009	-30	-30	-7.0	-6.5	5.0	9:23	17:23	8:00	TO-15 SIM
AA-2	34235	-30	-30	-8.5	-7.5	5.0	9:26	17:26	8:00	TO-15 SIM
AA-3	96110	-30	-29	-5.5	-5.0	5.0	9:16	17:16	8:00	TO-15 SIM
AA-4	437	-30	-30	-8.0	-7.0	3.5	9:13	17:13	8:00	TO-15 SIM
IA-1	34197	-30	-30	-7.0	-7.0	5.0	6:53	14:53	8:00	TO-15 SIM
IA-3	21076	-30	-29	-7.5	-7.0	6.0	7:05	15:05	8:00	TO-15 SIM
IA-4	3737	-30	-30	-8.0	-8.5	5.0	6:59	14:59	8:00	TO-15 SIM
IA-5	900	-30	-30	-8.0	-7.5	8.0	6:52	14:52	8:00	TO-15 SIM
IA-4 (Dup)	32126	-30	-30	-6.5	-7.0	5.0	6:59	14:59	8:00	TO-15 SIM

Notes:

TO-15 Analysis included: 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethylene (1,1-DCE), Chloroform, cis 1,2-Dichloroethylene (1,2-DCE), Tetrachloroethylene (PCE), Trichloroethylene (TCE), and Vinyl Chloride

All vacuum readings in units of pounds per square inch Hg

Initial Vacuum Readings of -30psi were greater than -30psi, the gauge only recorded to -30psi.

Table 2 Summary of Vapor Intrusion Study Results – Former GE Building

Location ID	1,1,1-TCA				1,1-DCA				1,1-DCE				Chloroform			
	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007
Indoor Air Samples (µg/m^3)																
IA-1	**0.18**	**0.21**	< 0.18	< 0.18	< 0.13	< 0.13	< 0.14	< 0.13	< 0.063	< 0.064	< 0.067	< 0.064	< 0.15	< 0.16	< 0.16	< 0.16
IA-2	< 0.19	NS	NS	NS	< 0.14	NS	NS	NS	< 0.068	NS	NS	NS	< 0.17	NS	NS	NS
IA-2 (duplicate)	< 0.18	NS	NS	NS	< 0.13	NS	NS	NS	< 0.064	NS	NS	NS	< 0.16	NS	NS	NS
IA-3	< 0.18	**0.17**	< 0.18	< 0.18	< 0.14	< 0.12	< 0.14	< 0.14	< 0.067	< 0.06	< 0.067	< 0.067	< 0.16	**0.16**	< 0.16	< 0.16
IA-4	< 0.18	**0.21**	< 0.17	< 0.18	< 0.13	< 0.13	< 0.13	< 0.13	< 0.064	< 0.064	< 0.063	< 0.064	< 0.16	**0.16**	< 0.15	< 0.16
IA-4 (duplicate)	NS	NS	< 0.18	< 0.2	NS	NS	< 0.13	< 0.13	NS	NS	< 0.064	< 0.064	NS	NS	< 0.16	< 0.16
IA-5	**0.38**	**0.21**	**0.32**	**0.37**	< 0.14	< 0.13	< 0.11	< 0.15	< 0.068	< 0.064	< 0.053	< 0.072	< 0.17	< 0.16	< 0.13	< 0.18
IA-5 (duplicate)	NS	**0.18**	NS	NS	NS	< 0.13	NS	NS	NS	< 0.064	NS	NS	NS	< 0.16	NS	NS
IA-6	< 0.18	NS	NS	NS	< 0.13	NS	NS	NS	< 0.064	NS	NS	NS	< 0.16	NS	NS	NS
Ambient Samples (µg/m^3)																
AA-1	< 0.18	< 0.18	< 0.17	< 0.18	< 0.14	< 0.14	< 0.13	0.13	< 0.067	< 0.067	< 0.063	< 0.064	< 0.16	< 0.16	< 0.15	0.16
AA-3	< 0.17	< 0.18	< 0.16	< 0.18	< 0.13	< 0.13	< 0.12	0.13	< 0.063	< 0.065	< 0.06	< 0.064	< 0.15	< 0.16	< 0.15	0.16
AA-5	< 0.17	NS	NS	NS	< 0.13	NS	NS	NS	< 0.063	NS	NS	NS	< 0.15	NS	NS	NS
Average Upwind for Indoor Air Correction	*0*	*0*	*0*		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
AA-2	< 0.17	< 0.18	< 0.16	< 0.18	< 0.13	< 0.14	< 0.12	*0.13*	< 0.063	< 0.067	< 0.059	< 0.064	< 0.15	< 0.16	< 0.14	0.16
AA-4	< 0.17	< 0.18	< 0.17	< 0.16	< 0.13	< 0.14	< 0.12	0.12	< 0.063	< 0.067	< 0.063	< 0.06	< 0.15	< 0.16	< 0.15	0.15
Corrected Indoor Air Results (Indoor Air minus Ambient) (µg/m^3)																
IA-1	**0.18**	**0.21**	< 0.18	< 0.18	< 0.13	< 0.13	< 0.14	< 0.13	< 0.063	< 0.064	< 0.067	< 0.064	< 0.15	< 0.16	< 0.16	< 0.16
IA-2	< 0.19	NS	NS	NS	< 0.14	NS	NS	NS	< 0.068	NS	NS	NS	< 0.17	NS	NS	NS
IA-2 (duplicate)	< 0.18	NS	NS	NS	< 0.13	NS	NS	NS	< 0.064	NS	NS	NS	< 0.16	NS	NS	NS
IA-3	< 0.18	**0.17**	< 0.18	< 0.18	< 0.14	< 0.12	< 0.14	< 0.14	< 0.067	< 0.06	< 0.067	< 0.067	< 0.16	**0.16**	< 0.16	< 0.16
IA-4	< 0.18	**0.21**	< 0.17	< 0.18	< 0.13	< 0.13	< 0.13	< 0.13	< 0.064	< 0.064	< 0.063	< 0.064	< 0.16	**0.16**	< 0.15	< 0.16
IA-5	**0.38**	**0.21**	< 0.32	**0.37**	< 0.14	< 0.13	< 0.11	< 0.15	< 0.068	< 0.064	< 0.053	< 0.072	< 0.17	< 0.16	< 0.13	< 0.18
MTCA Method C Indoor Air Screening Level	*2,205*				*350*				*200*				*1.1*			

Location ID	cis-1,2-DCE				PCE				TCE				Vinyl Chloride			
	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007	12/5/2005	8/21/2006	11/9/2006	2/19/2007
Indoor Air Samples (µg/m^3)																
IA-1	< 0.12	< 0.13	< 0.13	< 0.13	**0.38**	**0.22**	< 0.23	< 0.22	**0.28**	**1.3**	**0.2**	< 0.17	< 0.04	< 0.041	< 0.043	< 0.043
IA-2	< 0.14	NS	NS	NS	**0.38**	NS	NS	NS	**0.27**	NS	NS	NS	< 0.044	NS	NS	NS
IA-2 (duplicate)	< 0.13	NS	NS	NS	**0.38**	NS	NS	NS	**0.28**	NS	NS	NS	< 0.041	NS	NS	NS
IA-3	< 0.13	< 0.12	< 0.13	< 0.13	**0.43**	**0.29**	**0.67**	< 0.23	**0.34**	**0.29**	< 0.18	**0.24**	< 0.043	< 0.039	< 0.043	< 0.043
IA-4	< 0.13	< 0.13	< 0.12	< 0.13	**0.42**	**0.22**	< 0.21	< 0.22	**0.55**	**5.2**	**1.7**	**0.35**	< 0.041	< 0.041	< 0.04	< 0.041
IA-4 (duplicate)	NS	NS	< 0.13	< 0.13	NS	NS	< 0.22	< 0.22	NS	NS	**1.7**	**0.37**	NS	NS	< 0.041	< 0.041
IA-5	< 0.14	< 0.13	< 0.11	< 0.14	**0.45**	**0.22**	**0.28**	**0.25**	**0.71**	**1.2**	**1**	**0.99**	< 0.044	< 0.041	< 0.034	< 0.047
IA-5 (duplicate)	NS	< 0.13	NS	NS	NS	**0.22**	NS	NS	NS	**0.96**	NS	NS	NS	< 0.041	NS	NS
IA-6	< 0.13	NS	NS	NS	**0.46**	NS	NS	NS	**0.44**	NS	NS	NS	< 0.041	NS	NS	NS
Ambient Samples (µg/m^3)																
AA-1	< 0.13	< 0.13	< 0.12	< 0.13	**0.46**	< 0.23	< 0.21	< 0.22	**0.2**	< 0.18	< 0.17	< 0.17	< 0.043	< 0.043	< 0.04	< 0.041
AA-3	< 0.12	< 0.13	< 0.12	< 0.13	**0.37**	**0.27**	< 0.21	< 0.22	**0.18**	< 0.18	< 0.16	< 0.17	< 0.04	< 0.042	< 0.039	< 0.041
AA-5	< 0.12	NS	NS	NS	**0.4**	NS	NS	NS	**0.19**	NS	NS	NS	< 0.04	NS	NS	NS
Average Upwind for Indoor Air Correction	*0*	*0*	*0*	*0*	***0.41***	***0.12*** [1]	*0*	*0*	***0.19***	*0*	*0*	*0*	*0*	*0*	*0*	
AA-2	< 0.12	< 0.13	< 0.12	< 0.13	**0.38**	< 0.23	< 0.2	< 0.22	**0.18**	< 0.18	< 0.16	< 0.17	< 0.04	< 0.043	< 0.038	< 0.041
AA-4	< 0.12	< 0.13	< 0.12	< 0.16	**0.34**	< 0.23	< 0.21	**0.26**	< 0.17	< 0.18	< 0.17	< 0.16	< 0.04	< 0.043	< 0.04	< 0.039
Corrected Indoor Air Results (Indoor Air minus Ambient) (µg/m^3)																
IA-1	< 0.12	< 0.13	< 0.13	< 0.13	**-0.03**	**0.03**	< 0.23	< 0.22	**0.09**	**1.3**	**0.2**	**0.17**	< 0.04	< 0.041	< 0.043	0.043
IA-2	< 0.14	NS	NS	NS	**-0.03**	NS	NS	NS	**0.08**	NS	NS	NS	< 0.044	NS	NS	NS
IA-2 (duplicate)	< 0.13	NS	NS	NS	**-0.03**	NS	NS	NS	**0.09**	NS	NS	NS	< 0.041	NS	NS	NS
IA-3	< 0.13	< 0.12	< 0.13	< 0.13	**0.02**	**0.10**	**0.67**	< 0.23	**0.15**	**0.29**	< 0.18	**0.24**	< 0.043	< 0.039	< 0.043	0.043
IA-4	< 0.13	< 0.13	< 0.12	< 0.13	**0.01**	**0.03**	< 0.21	< 0.22	**0.36**	**5.2**	**1.7**	**0.35**	< 0.041	< 0.041	< 0.04	0.041
IA-5	< 0.14	< 0.13	< 0.11	< 0.14	**0.04**	**0.03**	**0.28**	**0.25**	**0.52**	**1.2**	**1**	**0.99**	< 0.044	< 0.041	< 0.034	0.047
MTCA Method C Indoor Air Screening Level	*35*				*4.2*				*0.22/0.96*				*2.82*			

Notes:

1. Average PCE concentration in ambient air calculated using 1/2 detection limit for non-detect result.
2. TCE has two screening levels, the MTCA Mehthd C screening level (0.22 µg/m^3) and the site-specific remediation level (0.96 µg/m^3)

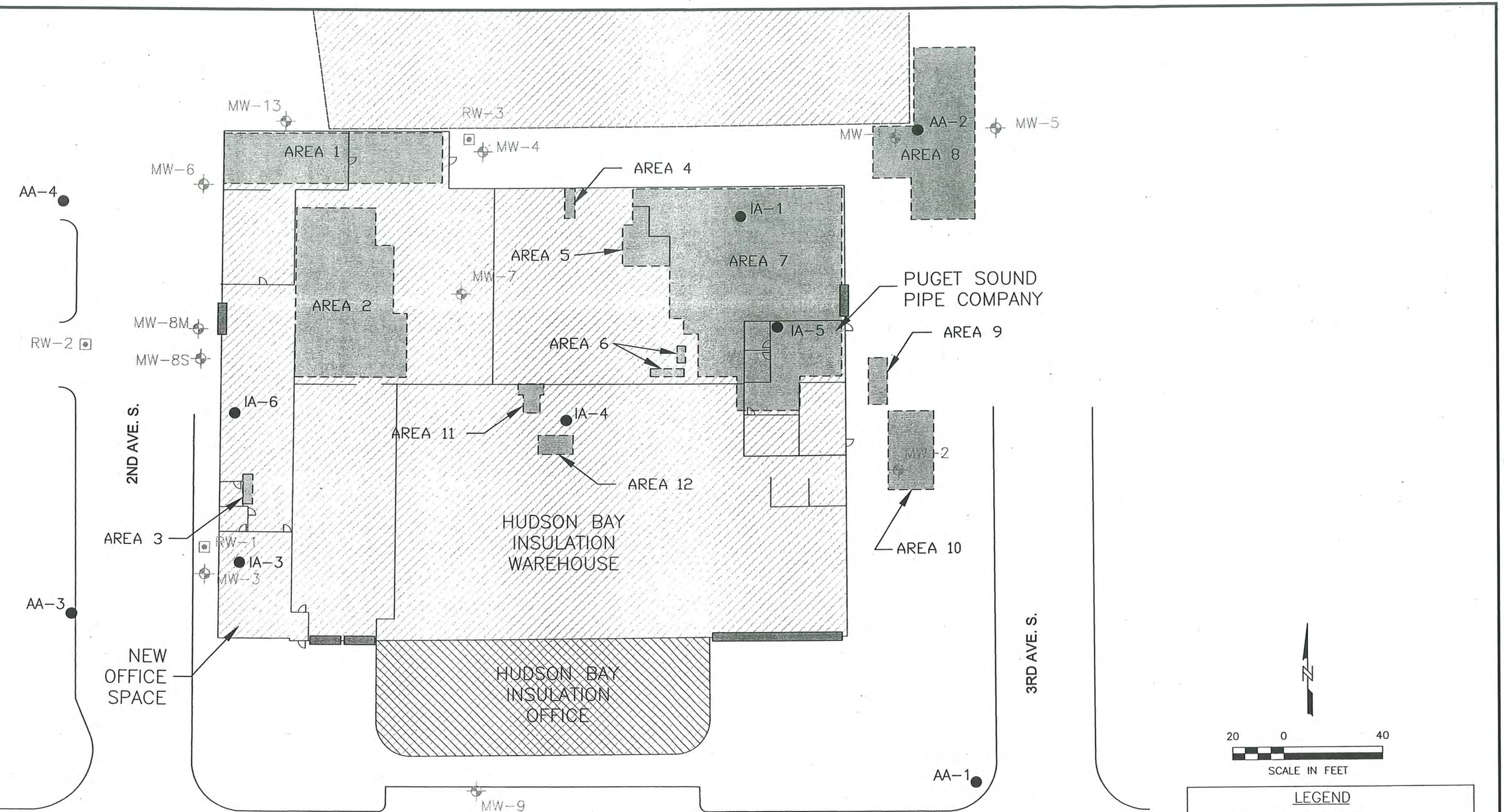
NS - Location was not sampled

Shading indicates values above the MTCA Method C Screening level

Shading indicates values above the Site-Specific Remediation level

During the November 2006 sampling event no COCs were detected in the ambient air.

1,1,1-TCA- 1,1,1-Trichloroethane
1,1-DCA- 1,1-Dichloroethane
1,1-DCE- 1,1-Dichloroethylene
1,2-DCE- cis 1,2-Dichloroethylene
PCE- Tetrachloroethylene
TCE- Trichloroethylene



NOTE:

1. INTERNAL WAREHOUSE WALLS ARE FROM McKINSTRY Co. BUILDINGS, DRAFTED 5/17/2004, AND FEILD UPDATED 8/09/2005.
2. LOCATIONS ARE APPROXIMATE.

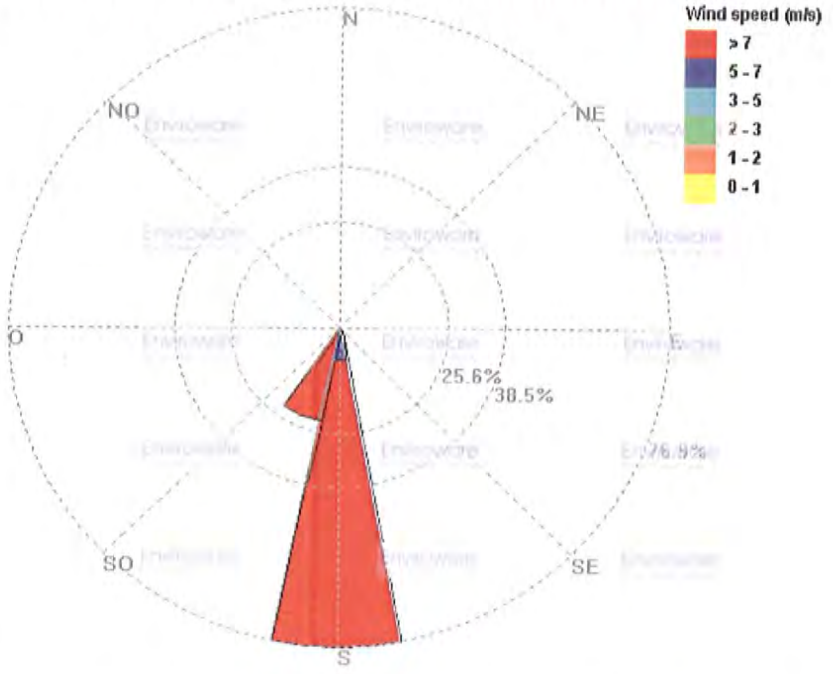
RETEC

GEAE - S. DAWSON STREET GE001-19314-750			SAMPLING LOCATIONS
DATE: 10/9/06	DRWN: E.M./SEA		FIGURE 1

File: H:\19314\193145046.dwg Layout: FIGURE 1 User: emarshall Plotted: Oct 09, 2006 - 2:44pm Xref's:

Figure 2 Wind Roses

February 19, 2007 - 6AM to 6PM - PSCAA Duwamish Station



February 19, 2007 - 6AM to 6PM - Boeing Field (data from wunderground.com)

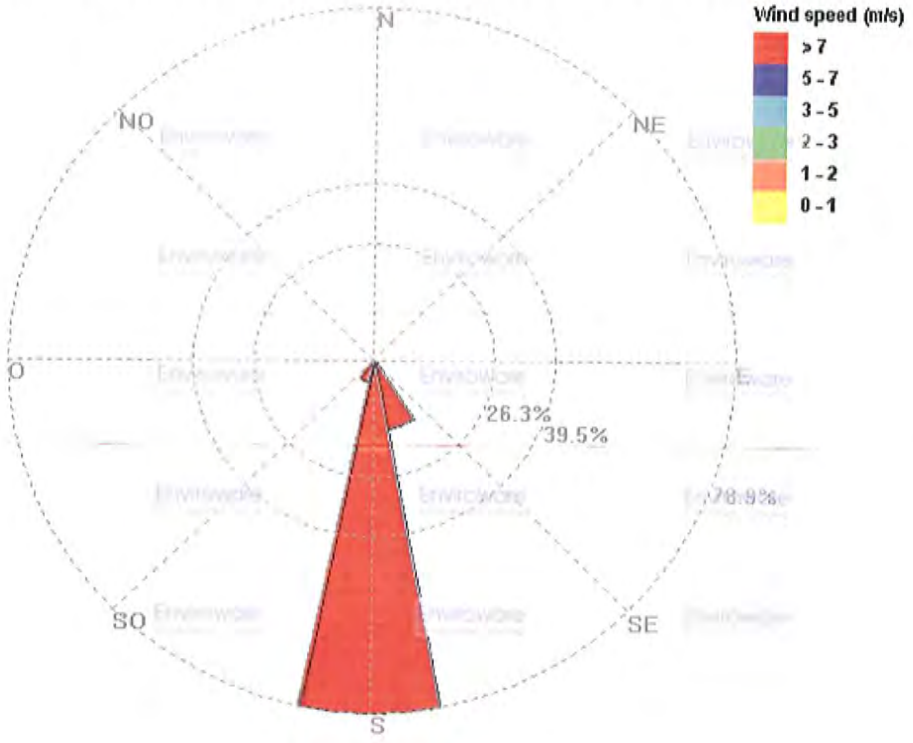
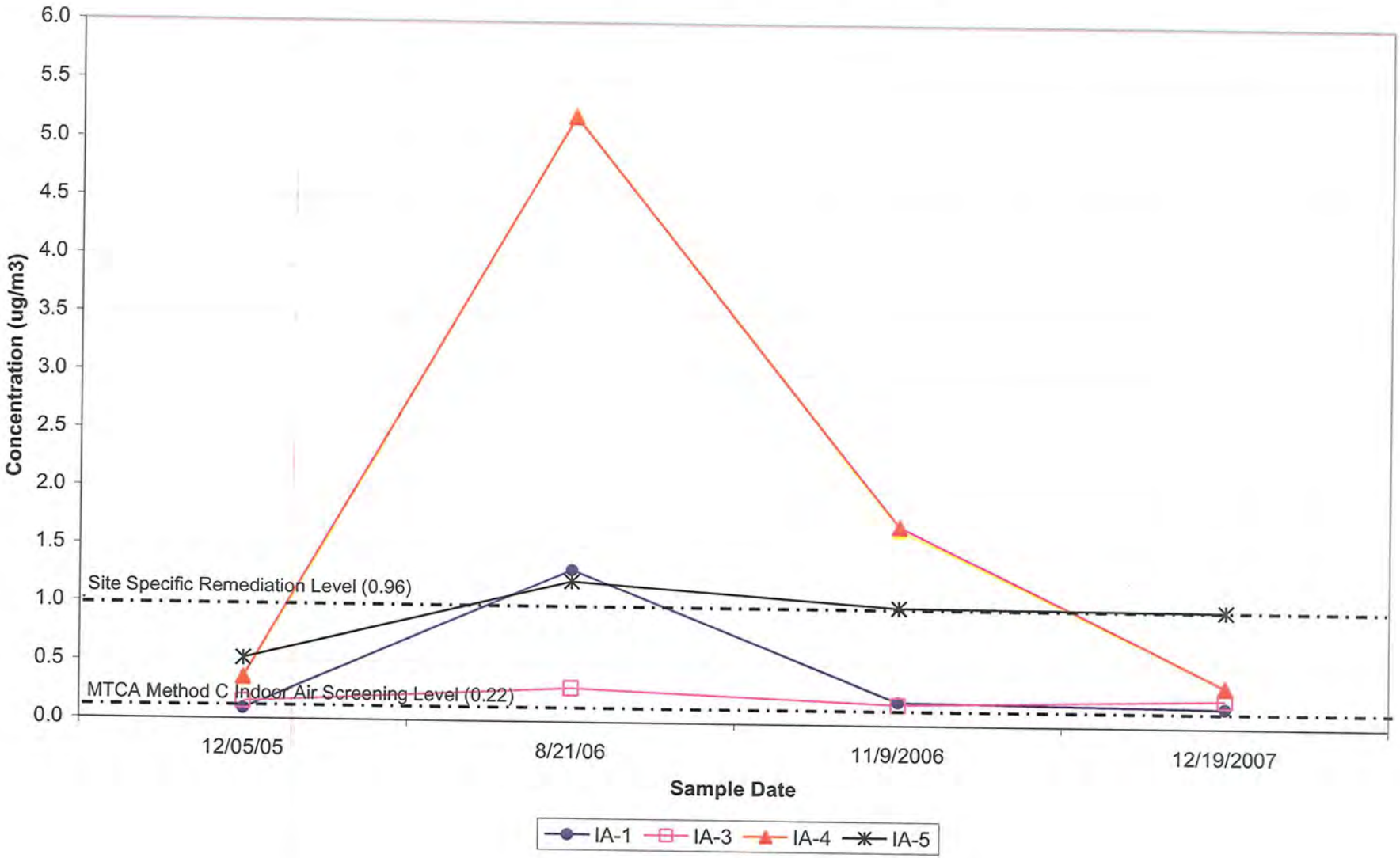


Figure 3: TCE Concentration Over Time



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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0702404

Work Order Summary

CLIENT:	Ms. Jill Lantz The RETEC Group, Inc. 1011 SW Klickitat Way Suite 207 Seattle, WA 98134
PHONE:	(206) 624-9349 x 232
FAX:	
DATE RECEIVED:	02/21/2007
DATE COMPLETED:	03/05/2007

BILL TO:	Ms. Jill Lantz The RETEC Group, Inc. 1011 SW Klickitat Way Suite 207 Seattle, WA 98134
P.O. #	GE001.19314.750
PROJECT #	GE.220 S.Dawson 220 S. Dawson
CONTACT:	Sarah Nguyen

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	IA-1-0207	Modified TO-15 SIM	5.0 "Hg
02A	IA-5-0207	Modified TO-15 SIM	8.0 "Hg
03A	IA-3-0207	Modified TO-15 SIM	6.0 "Hg
04A	IA-4-0207	Modified TO-15 SIM	5.0 "Hg
04AA	IA-4-0207 Duplicate	Modified TO-15 SIM	5.0 "Hg
05A	Duplicate-0207	Modified TO-15 SIM	5.0 "Hg
06A	AA-1-0207	Modified TO-15 SIM	5.0 "Hg
07A	AA-2-0207	Modified TO-15 SIM	5.0 "Hg
08A	AA-3-0207	Modified TO-15 SIM	5.0 "Hg
09A	AA-4-0207	Modified TO-15 SIM	3.5 "Hg
10A	Lab Blank	Modified TO-15 SIM	NA
10B	Lab Blank	Modified TO-15 SIM	NA
11A	CCV	Modified TO-15 SIM	NA
11B	CCV	Modified TO-15 SIM	NA
12A	LCS	Modified TO-15 SIM	NA
12AA	LCSD	Modified TO-15 SIM	NA
12B	LCS	Modified TO-15 SIM	NA

Continued on next page

WORK ORDER #: 0702404

Work Order Summary

CLIENT:	Ms. Jill Lantz The RETEC Group, Inc. 1011 SW Klickitat Way Suite 207 Seattle, WA 98134	**BILL TO:**	Ms. Jill Lantz The RETEC Group, Inc. 1011 SW Klickitat Way Suite 207 Seattle, WA 98134
PHONE:	(206) 624-9349 x 232	**P.O. #**	GE001.19314.750
FAX:		**PROJECT #**	GE.220 S.Dawson 220 S. Dawson
DATE RECEIVED:	02/21/2007	**CONTACT:**	Sarah Nguyen
DATE COMPLETED:	03/05/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
12BB	LCSD	Modified TO-15 SIM	NA

CERTIFIED BY: Linda D. Truman DATE: 03/06/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
The RETEC Group, Inc.
Workorder# 0702404

Nine 6 Liter Summa Canister (SIM Certified) samples were received on February 21, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. 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 Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

The Chain of Custody (COC) information for samples IA-1-0207, AA-1-0207, AA-2-0207, AA-3-0207 and AA-4-0207 did not match the entries on the sample tags with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the samples.

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.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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

Client Sample ID: IA-1-0207

Lab ID#: 0702404-01A

No Detections Were Found.

Client Sample ID: IA-5-0207

Lab ID#: 0702404-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.037	0.18	0.20	0.99
1,1,1-Trichloroethane	0.037	0.068	0.20	0.37
Tetrachloroethene	0.037	0.036 J	0.25	0.25

Client Sample ID: IA-3-0207

Lab ID#: 0702404-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.034	0.044	0.18	0.24

Client Sample ID: IA-4-0207

Lab ID#: 0702404-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.066	0.17	0.35

Client Sample ID: IA-4-0207 Duplicate

Lab ID#: 0702404-04AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.070	0.17	0.37

Client Sample ID: Duplicate-0207

Lab ID#: 0702404-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.032	0.058	0.17	0.31

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

Client Sample ID: AA-1-0207

Lab ID#: 0702404-06A

No Detections Were Found.

Client Sample ID: AA-2-0207

Lab ID#: 0702404-07A

No Detections Were Found.

Client Sample ID: AA-3-0207

Lab ID#: 0702404-08A

No Detections Were Found.

Client Sample ID: AA-4-0207

Lab ID#: 0702404-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.030	0.038	0.21	0.26

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-1-0207

Lab ID#: 0702404-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-5-0207

Lab ID#: 0702404-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	[illegible]	Date of Collection: 2/19/07
Dil. Factor:	[illegible]	Date of Analysis: 3/3/07 [illegible] PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.018	Not Detected	0.047	Not Detected
cis-1,2-Dichloroethene	0.037	Not Detected	0.14	Not Detected
Trichloroethene	0.037	0.18	0.20	0.99
1,1-Dichloroethene	0.018	Not Detected	0.072	Not Detected
Chloroform	0.037	Not Detected	0.18	Not Detected
1,1,1-Trichloroethane	0.037	0.068	0.20	0.37
Tetrachloroethene	0.037	0.036 J	0.25	0.25
1,1-Dichloroethane	0.037	Not Detected	0.15	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	107	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-3-0207

Lab ID#: 0702404-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0702404-03A
Dil. Factor: 1.00

Date of Collection: 2/5/07
Date of Analysis: 2/6/07 09:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Trichloroethene	0.034	0.044	0.18	0.24
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
Chloroform	0.034	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	108	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-0207

Lab ID#: 0702404-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 060316 Date of Collection: 2/19/07

Dilution Factor: 2.5 Date of Analysis: 3/6/07 01:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	0.066	0.17	0.35
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IA-4-0207 Duplicate

Lab ID#: 0702404-04AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	070[illegible]	Date of Collection: 2/4/07
Dilution Factor:	1.60	Date of Analysis: 2/[illegible] 11:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	0.070	0.17	0.37
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	109	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Duplicate-0207

Lab ID#: 0702404-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:		Date of Collection: 2/19/07
Dil. Factor:		Date of Analysis: 2/27/07 08:59 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	0.058	0.17	0.31
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-1-0207

Lab ID#: 0702404-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: [illegible] Canister Id: [illegible] Date of Collection: 2/5/07
Dil. Factor: 1.6 Date of Analysis: 2/10/07 08:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-2-0207

Lab ID#: 0702404-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	070212	Date of Collection:	2/1/07
Dil. Factor:	1.61	Date of Analysis:	2/12/07 06:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-3-0207

Lab ID#: 0702404-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 070213[illegible] Date of Collection: 2/9/07

Dil. Factor: 1.4 Date of Analysis: 3/6/07 10:28PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AA-4-0207

Lab ID#: 0702404-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.060	Not Detected
Chloroform	0.030	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.038	0.21	0.26
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0702404-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: Lab Blank

Lab ID#: 0702404-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702404-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 070304r2
Dil. Factor: 1.41

Date of Collection: NA
Date of Analysis: 3/5/07 09:43 AM

Compound	%Recovery
Vinyl Chloride	70
cis-1,2-Dichloroethene	75
Trichloroethene	85
1,1-Dichloroethene	77
Chloroform	79
1,1,1-Trichloroethane	82
Tetrachloroethene	84
1,1-Dichloroethane	80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0702404-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	%Recovery
Vinyl Chloride	75
cis-1,2-Dichloroethene	80
Trichloroethene	88
1,1-Dichloroethene	80
Chloroform	82
1,1,1-Trichloroethane	83
Tetrachloroethene	90
1,1-Dichloroethane	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702404-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	060807L-06	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 8/6/07 10:24 AM	

Compound	%Recovery
Vinyl Chloride	77
cis-1,2-Dichloroethene	89
Trichloroethene	86
1,1-Dichloroethene	98
Chloroform	90
1,1,1-Trichloroethane	91
Tetrachloroethene	89
1,1-Dichloroethane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCSD

Lab ID#: 0702404-12AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	%Recovery
Vinyl Chloride	73
cis-1,2-Dichloroethene	81
Trichloroethene	87
1,1-Dichloroethene	88
Chloroform	82
1,1,1-Trichloroethane	79
Tetrachloroethene	94
1,1-Dichloroethane	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0702404-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	60702404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/4/07 2:26 PM

Compound	%Recovery
Vinyl Chloride	72
cis-1,2-Dichloroethene	80
Trichloroethene	84
1,1-Dichloroethene	88
Chloroform	80
1,1,1-Trichloroethane	80
Tetrachloroethene	90
1,1-Dichloroethane	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCSD

Lab ID#: 0702404-12BB

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	%Recovery
Vinyl Chloride	75
cis-1,2-Dichloroethene	82
Trichloroethene	85
1,1-Dichloroethene	90
Chloroform	81
1,1,1-Trichloroethane	77
Tetrachloroethene	91
1,1-Dichloroethane	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

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.

CHAIN-OF-CUSTODY RECORD

Contact Person: Jamie Stevens
Company: The RETEC Group Email: jstevens@retec.com
Address: 1011 SW Klickitat City: Seattle State: WA Zip: 98134
Phone: 206-624-9349 Fax: 206-624-2839
Collected by: (Signature) J. Stevens

Project Info:
P.O. # GE001-19314.750
Project # GE-220 S. Dawson
Project Name: 220 S. Dawson

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: [illegible]
Date: 2/20/07
Pressurization Gas: N2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Start Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	IA-1 - 0207	34 177	2/19/07	0653		-30	-4	5.0	5.0
02A	IA-5 - 0207	900		0652		-28	-5	5.0	
03A	IA-3 - 0207	21 076		0705		-30	-7.5	5.0	
04A	IA-4 - 0207	3737		0659		-30	-8.5	5.0	
05A	Duplicate - 0207	32 026		0659		-30	-8.5	5.0	
06A	AA-1-0207	21 009		0923		-30	-6.5	5.0	
07A	AA-2-0207	34 235		0926		-30	-7.5	5.0	
08A	AA-3-0207	96 110		0916		-29	-5	5.0	
09A	AA-4-0207	437		0913		-30	-7.0	5.0	

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
J. Stevens 2/20/07 0801	T. LaBlanc - ATL 2/21/07 0850
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	FedEx	7981 1116 3955	N/A	good	Yes No (None)	0702404

Form 1296 rev.10

March 9, 2007

Organic Data Verification Report

General Electric – South Dawson Street

Air Sampling - November 2006

Prepared for:

Jamie Stevens
Project Manager
The RETEC Group, Inc.
1011 Klickitat Way, Suite 207
Seattle, WA 98134

Prepared by:

Sue Milcan
Environmental Scientist/Quality Assurance Manager
The RETEC Group, Inc.
2409 Research Blvd., Suite 106
Fort Collins, CO 80526

RETEC Project No.: GE001-19314-750

Overview

The samples analyzed for the General Electric South Dawson Street air sampling event from February 2007 are listed in the Table of Samples Analyzed (page 2). Data verification was performed on nine air samples.

Samples were analyzed by Air Toxics Ltd of Folsom, CA. The verified analyses were Volatile Organic Compounds (VOCs) by modified GC/MS method TO15 SIM.

The RETEC Analytical Data Verification Checklist is presented as pages 3-6. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA540/R-99/008 of October 1999, and the *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-04-009, January 2005 (Draft), as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The following data components were reviewed during the data verification procedure:

Submitted Deliverables
Case Narratives
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits dilution factors
Holding times
Method blank results
LCS and LCSD (blank spike) results
Organic surrogate recoveries
Blind field duplicate results
Electronic data deliverables (EDDs)

Data Validation Qualifiers Assigned During this Review

There were no data validation qualifiers assigned during this review.

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use without qualification.

Table of Samples Analyzed
General Electric South Dawson Street
Air Samples
Air Toxics Ltd. Laboratory Project 702404
February 2007 Sampling

Matrix	Sample Name	Parent Sample ID	Sample Date and Time		Lab SDG	Lab Sample ID
Air	IA-1-0207		2/19/2007	06:53	702404	0702404-01A
Air	IA-5-0207		2/19/2007	06:52	702404	0702404-02A
Air	IA-3-0207		2/19/2007	07:05	702404	0702404-03A
Air	IA-4-0207		2/19/2007	06:59	702404	0702404-04A
Air	Duplicate-0207	IA-4-0207 Dup	2/19/2007	06:59	702404	0702404-05A
Air	AA-1-0207		2/19/2007	09:23	702404	0702404-06A
Air	AA-2-0207		2/19/2007	09:26	702404	0702404-07A
Air	AA-3-0207		2/19/2007	09:16	702404	0702404-08A
Air	AA-4-0207		2/19/2007	09:13	702404	0702404-09A

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

Project Name: General Electric	Laboratory: Air Toxics Ltd. Folsom, CA
Project Reference: South Dawson Street Air Sampling	Sample Matrix: Air
RETEC Project: GE001-19314-750	Sample Start Date: 02/19/2007
Verified By/Date Verified: Sue Milcan / 03/09/2007	Sample End Date: 02/19/2007
Samples Analyzed: see Table of Samples Analyzed, General Electric South Dawson Street, Air Samples, February 2007 (page 2).	
Parameters Verified: Volatile Organic Compounds (VOCs) by modified GC/MS method TO15 SIM.	
Laboratory Project ID: 0702404	

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT

Precision:	X	Acceptable		Unacceptable	SM	Initials
Comments: Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of field and laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. All RPD precision measurements were compared to EPA published QC limits. No data require qualification based on these measurements, and overall field and laboratory precision is acceptable. Precision measurements are reviewed in items 17 and 21.						
Accuracy:	X	Acceptable		Unacceptable	SM	Initials
Comments: Field accuracy, a measure of the sampling bias, could not be determined as there were no trip blank, field blank, or equipment rinse blank samples included in this data set. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and organic system monitoring compounds (surrogate) percent recoveries (%Rs). LCS and LCSD %Rs, which demonstrated the overall performance of the analysis, were compared to EPA published QC limits. System monitoring compound or surrogate recoveries, which measured system performance and efficiency during organic analysis, were compared to EPA published QC limits or laboratory control charted limits. No data require qualification based on laboratory accuracy measurements, and overall laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15 and 16.						
Method Compliance:	X	Acceptable		Unacceptable	SM	Initials
Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, and laboratory blanks against method specified requirements, while applying EPA data validation guidelines. No data require qualification based on method compliance measurements, and overall method compliance is acceptable based on the supplied data. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.						
Completeness:	X	Acceptable		Unacceptable	SM	Initials
Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Project completeness goals were set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods, and detection limits. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). EDD modifications were made as documented in item 23. All of the data received from the lab were useable without qualification. Since no data were missing or rejected, completeness of the data set is calculated to be 100% and is acceptable.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

VERIFICATION CRITERIA CHECK						
Data validation qualifiers assigned during this review: none						
1. Did the laboratory identify any non-conformances related to the analytical results?		Yes	X	No	SM	Initials
Explanation by laboratory: No analytical problems were outlined and no laboratory flags were assigned to the data.						
2. Were sample Chain-of-Custody forms complete?		Yes	X	No	SM	Initials
Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt. The following omission was noted. Method request information was not indicated on the COC record. The laboratory appropriately scheduled the samples for method TO15 SIM as per the existing project requirements. The COC information for samples IA-1-0207, AA-1-0207, AA-2-0207, AA-3-0207, and AA-4-0207 did not match the entries on the sample tags with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the samples. No action is required other than to document this occurrence.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	X	Yes		No	SM	Initials
Comments: All method TO15 SIM analyses were completed.						
4. Were samples received in good condition and at the appropriate temperature?	X	Yes		No	SM	Initials
Comments: No discrepancies or problems with sample condition and pressure, or with receipt temperature were identified on the COC record or in the laboratory case narrative.						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	X	Yes		No	SM	Initials
Comments: The reported method and target analyte list were in compliance with project requirements.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	X	Yes		No	SM	Initials
Comments: Reported detection limits are achievable by the quoted method.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	X	Yes		No	SM	Initials
Comments: Only analytes applicable to the project requirements and method were reported.						
8. Were sample holding times met?	X	Yes		No	SM	Initials
Comments: Extraction and analytical holding times were met for all samples and analyses.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

9. Were correct concentration units reported?	X	Yes		No	SM	Initials
Comments: All results are reported in units of µg/m^3 or ppbv. Note that only the µg/m^3 data are reported in the EDD.						
10. Were the reporting requirements for flagged data met?	X	Yes		No	SM	Initials
Comments: There were no laboratory flags assigned to the reported data. Data verification qualifiers override laboratory flags.						
11. Were laboratory blank samples free of target analyte contamination?	X	Yes		No	SM	Initials
Comments: The summarized laboratory blanks were free of target analyte contamination.						
12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?		Yes		No	SM	Initials
Comments: Not applicable - There were no trip blank, field blank or equipment rinse blank samples included in this data set. Field accuracy could not be evaluated for this data set.						
13. Were instrument calibrations within method or data validation control limits?	**X – limited review**	Yes		No	SM	Initials
Comments: The submitted summarized continuing calibration verification (CCV) %Rs were within the method required QC limits of 70-130% for daily calibrations.						
14. Were surrogate recoveries within control limits?	X	Yes		No	SM	Initials
Comments: Surrogate percent recoveries (%Rs) for organic analyses were within data verification QC criteria (laboratory limits of 70-130%) for all project and QC samples.						
15. Were laboratory control sample recoveries within control limits?	X	Yes		No	SM	Initials
Comments: LCS and LCSD recoveries were within data verification/laboratory control-charted QC limits of 70-130% for all target analytes.						
16. Were matrix spike recoveries within control limits?		Yes		No	SM	Initials
Comments: Not applicable for the reported method - The analysis of MS and MSD samples is not required for TO15 SIM analysis.						
17. Were duplicate RPDs and/or serial dilution %Ds within control limits?	X	Yes		No	SM	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD samples were within data verification/laboratory control-charted QC limits of 0-20%. He RPD between the laboratory duplicate trichloroethene result (0.37 µg/m^3) and the source sample IA-4-0207 trichloroethene result (0.35 µg/m^3) was also compliant at 6%RPD. *Serial Dilution %D data for metals analysis is not applicable for the reported method or for this level of review.*						
18. Were organic system performance criteria met?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – Organic system performance data was not supplied in analytical laboratory reports and was therefore not included in this data review.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

19. Were internal standards within method criteria for GC/MS sample analyses?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – GC/MS internal standard data was not supplied in analytical laboratory reports and was therefore not included in this data review.						
20. Were inorganic system performance criteria met?	NA	Yes	NA	No	SM	Initials
Comments: Not applicable for the reported method – There were no inorganic parameters requested for the samples in this data set.						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	X	Yes		No	SM	Initials

Duplicate Sample No.	Duplicate-0207		Primary Sample No.	IA-4-0207

Comments: Field duplicate RPDs were within the default data validation QC limits of 0-30% for air matrices, or RPDs were not applicable due to results that were undetected in both samples. Field duplicate and native sample concentrations that were both undetected are not reflected in the table below since RPDs are not applicable.

The following RPD was calculated:

Method	Units	Analyte	IA-4-0207	Duplicate-0207	RPD
TO15 SIM	$\mu g/m^3$	Trichloroethene	0.35	0.31	12

22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	SM	Initials
Comments: Not applicable for this level of data verification –GC/MS quantitation reports and chromatograms were not supplied in analytical laboratory reports and were therefore not included in this data review.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	SM	Initials

Comments: Note that only the $\mu g/m^3$ data are reported in the EDD. There were no discrepancies between the EDD concentrations and reporting limits and the hardcopy data reports. Significant figures in reported results or reporting limits were corrected as necessary. According to validation protocol, the hardcopy data report was accepted as the correct reference.

The RETEC database manager in Seattle, WA was informed of all EDD corrections made to the provided EDD file. The updated EDD result file, with significant figure corrections, was returned to the RETEC database manager in Seattle, WA 03/09/2007 for updating to the project database.

24. General Comments: Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA540/R-99/008 of October 1999, and the *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-04-009, January 2005 (Draft), as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

FIELD ACTIVITY LOG

PROJECT GE
PROJECT NO. GE001-19314
DAY & DATE Mon 2/19/07

COMPLETED BY J. Stevens
REVIEWED BY
SHEET 1 OF 3

TIME	SUMMARY OF DAILY ACTIVITIES AND EVENTS
0530	JS arrive at office · load van · check weather · check fed-ex - 4 canisters being held at fed-ex pick up location
0620	Aaron and JS on site H&S meeting · overview of task: air sampling · Heavy lifting - ladders, boxes · tool safety - only using a 9/16 Wrench · slip/trip/fall - wet conditions · traffic - high vis vest · eye injury
0645	Start checking pressure (see page 2)
0715	JS checks Hudson and Puget Pipe for VOC - found uncapped spray paint at both locations. Placed in ziplock bags. At both locations spray paint had not been used on Friday or Monday (or over weekend). Cans not in the vicinity of sample canisters.
0900	Back on site - set up ambient
0950	JS checks canisters
1120	AJ checks canisters
1311	AJ checks canisters
1408	AJ checks canisters
1430	JS checks canisters. Starts taken down sampling - indoor only
1700	JS checks canisters. Starts taken down outdoor sample cans.
1735	last sample taken down load van
1750	JS leaves site
	end JCS 2/19/07

FIELD ACTIVITY LOG

PROJECT GE
PROJECT NO. GE001.19314
DAY & DATE Mon 2/19/07

COMPLETED BY J. Stevens
REVIEWED BY
SHEET 2 OF 3

Log of pressure/start times

TIME	SUMMARY OF DAILY ACTIVITIES AND EVENTS							
		start				End		
location	can #	gauge ~~psi~~ "Hg	can ~~psi~~ "Hg	start time	End time	gauge ~~psi~~ "Hg	can ~~psi~~ "Hg
1A-1	34197	+-30	-30	0653	1453	-7	-7
1A-5	900	+-30	-28	0652	1452	-8	-7.5
1A-3	21076	+-30	+-30	0705	1505	-7.5	-7 **
1A-4	3737	+-30	-30	0659	1459	-8	-8.5
Duplicate *	32126	+-30	+-30	0659	1459	-6.5	-7
AA-1	21009	± 30	-30	0923	1423	-7	-6.5
AA-2	34235	+-30	-30	0926	1426	-8.5	-7.5
AA-3	96110	+-30	-29	0916	1416	-5.5	-5.0
AA-4	437	+-30	-30	0913	1413	-8	-7.0
					(17)		

*Duplicate of 1A-4

** Sample can may have been open when placed in van. Difficult to tell if the knob was lose or tight. If lose was just barrely and sample flow controller remained on. Sample brought to van parked by Hudson bay East lot

Outdoor air samples - all had sample canes, AA-4 sample cane was certified with the canister, all other canes were certified but not with the matching can. Called air toxics to verify that this was ok.

JCS 2/19/07

FIELD ACTIVITY LOG

PROJECT GE
PROJECT NO. GE001.19314
DAY & DATE Mon 2/19/07

COMPLETED BY J. Stevens
REVIEWED BY
SHEET 3 OF 3

Log of Pressure Checks

TIME	SUMMARY OF DAILY ACTIVITIES AND EVENTS				
- for start times see page 2					
	Time/~~Ref~~ "Hg				
1A-1 PPS-W	0958/-19.5	1128/-14.5	1319/-10	1417/-8	1453/-7
1A-S PPS-O	1000/-19.0	1132/-15	1318/-10.5	1416/-8.5	1452/-7.5
1A 4 Hvd.	0953/-24	1120/-17	1315/-12	1413/-10.0	1459/-8.5
Duplicate	0953/-20	1120/-16	1315/-10.5	1413/-8.5	1459/-7
1A-3 Man.	0955/-20	1135/-14	1313/-10.0	1410/-8.25	1505/-7
AA-1 (SE)	0923/+-30	1123/-21.5	1317/-18	1415/-15	1503/-13
AA-2 (NE)	0926/+-30	1125/-23.5	1320/-17	1418/-14	1504/-12.5
AA-3 (SW)	0916/-29	1143/-20.5	1312/-15	1408/-12	1506/-9.5
AA-4 (NW)	0913/+-30	1145/-22.5	1311/-19	1409/-14	1507/-12.0

jcs 2/19/07

2/16/07

GEAE – Site Visit
Pre February 19, 2007 Indoor and Ambient Air Sampling Event
Purpose: Check the sample locations for VOC products, confirm that the spaces will be closed for the weekend, inform the tenants of the wish to reduce fan use, opening windows, or using VOC products on Monday, and to remind them of the event.

Questions for Tenets: Hudson Bay
Talked with: Randy

Confirm operating hours for Monday

6:30-3:30

Will Monday – February 19 – be a normal operating day – i.e. will work activity be typical

yes.

Are you using any VOC products over the today, the weekend, or on Monday?

no.

Will you be closed on the weekend?

yes.

Can I walk around and look for any VOC products – such as spray paint, solvents, glues – and if I find any can I place in a zip lock bag to be removed on Monday after the sampling event?

- found uncapped spray paint, WD-40, and some paint cans. Placed all of these in a bag

2/16/07

GEAE – Site Visit
Pre February 19, 2007 Indoor and Ambient Air Sampling Event
Purpose: Check the sample locations for VOC products, confirm that the spaces will be closed for the weekend, inform the tenants of the wish to reduce fan use, opening windows, or using VOC products on Monday, and to remind them of the event.

Questions for Tenets: Puget Pipe Supply
Talked with: Jay

Confirm operating hours for Monday

6:00 am - 3:00pm

Will Monday – February 19 – be a normal operating day – i.e. will work activity be typical

Yes. Other locations will be closed for holiday

Are you using any VOC products over the today, the weekend, or on Monday?

No. No work

Will you be closed on the weekend?

Yes.

Can I walk around and look for any VOC products – such as spray paint, solvents, glues – and if I find any can I place in a zip lock bag to be removed on Monday after the sampling event?

Spray paint on the East Wall of ware house, placed in bags.
No other VOC products.

No products in office

2/16/07

GEAE – Site Visit
Pre February 19, 2007 Indoor and Ambient Air Sampling Event
Purpose: Check the sample locations for VOC products, confirm that the spaces will be closed for the weekend, inform the tenants of the wish to reduce fan use, opening windows, or using VOC products on Monday, and to remind them of the event.

Questions for Tenets: Masons
Talked with:

Confirm operating hours for Monday

7. 4:30

Will Monday – February 19 – be a normal operating day – i.e. will work activity be typical

Yes

Are you using any VOC products over the today, the weekend, or on Monday?

no.

Will you be closed on the weekend?

yes.

Can I walk around and look for any VOC products – such as spray paint, solvents, glues – and if I find any can I place in a zip lock bag to be removed on Monday after the sampling event?

Found no supplies/products.

Attachment B

Photographic Record

February 2007- Air Sampling Photo Log

No photo.
Ambient Air Location AA-1, facing east

Ambient Air Location AA-2, facing east

Ambient Air Location AA-3, facing south-west

Ambient Air Location AA-4, facing west

Indoor Air Location IA-1, facing south/south-east, inside Puget Pipe Warehouse.

Indoor Air Location IA-3, facing north-east, inside Masons Supply Showroom/office.

Indoor Air Location IA-4 and duplicate sample, looking north-west, inside Hudson Bay Insulation Warehouse.

Indoor Air Location IA-5, facing south, inside Puget Pipe Supply Office.