



Mr. Jeffrey Crawford
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

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SER-1

Subject:

November 2010 Quarterly Monitoring Report for Springfield Street School Complex

Dear Mr. Crawford:

ARCADIS Inc. (ARCADIS, formerly LFR, Inc.) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between November 9 and November 19, 2010. The monitoring was performed in accordance with the *Long-Term Operation and Maintenance Plan and Site Contingency Plan (O&M Plan)* contained in the *Remedial Action Work Plan* prepared by ATC dated April 2, 1999, revised May 3, 1999 and May 9, 1999. The *Remedial Action Work Plan (RAWP)* was approved by the Rhode Island Department of Environmental Management (RIDEM) in a letter dated June 4, 1999.

This work is subject to the Limitations contained in Attachment A. Results of monitoring are provided in the following sections and in the attachments.

COVER MONITORING

ARCADIS conducted a visual survey of the site on November 9, 2010 for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. ARCADIS did not observe any areas where the orange indicator barrier was visible during this monitoring event. No significant holes or erosion were observed, and the holes observed during the August inspection had been repaired.

Date:

December 8, 2010

Contact:

Donna H. Pallister, PE

Phone:

401-738-3887

Email:

Donna.pallister@arcadis-us.com

Our ref:

WK012152.0007

Imagine the result

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on November 9, 2010. All subslab ventilation system blowers at the Site were operating normally upon arrival.

Samples of influent and effluent (before and after the carbon canisters) air were collected at each blower and screened for methane, carbon dioxide, oxygen, carbon monoxide, hydrogen sulfide, and organic vapors using a Landtec GEM2000 Plus, a MiniRae 2000, and a Q-Rae multigas meter. Results of screening are provided on Table 1. Methane, carbon monoxide and hydrogen sulfide were not detected in any of the samples. Carbon dioxide was detected at concentrations ranging from 0.2% to 0.5%; all of the sample concentrations were greater than the RAWP Action Level of 1000 ppm. Organic vapors were detected at concentrations of 0.4 to 0.5 ppm, which is below the RAWP action level of 5 ppm.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on November 9, 2010 using a QRAE plus multi-gas meter (methane, hydrogen sulfide, oxygen), a Mini Rae photoionization detector (organic vapors), and a Fluke 975 Airmeter (carbon dioxide, carbon monoxide). School was in session during the monitoring event. Results of monitoring are provided in the Table 2. Carbon dioxide measurements were made with a Fluke 975 Airmeter indoor air quality meter. The Fluke 975 has a range of 0 to 5,000 ppm, with a resolution of 1 ppm.

All readings were below the RAWP Action Levels. The outside temperature on November 9, 2010 was 54 °F. Carbon dioxide was measured outside in the school parking lot at 391 ppm.

Concentrations of carbon dioxide inside occupied buildings are expected to be higher than the concentrations in outdoor air because the building occupants expel carbon dioxide. Therefore, in indoor air, the concentration of carbon dioxide is typically used as an indicator of the effectiveness of the heating, ventilating, and air conditioning (HVAC) system in circulating outdoor air into the building. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have prepared ASHRAE Standard 62.1-2007 titled *Ventilation for Acceptable Indoor Air Quality*. The purpose of the Standard is to specify minimum ventilation rates and other measures to provide indoor air quality that is acceptable to human occupants and

that minimize adverse health effects. A discussion regarding carbon dioxide concentrations in indoor air contained in Informative Appendix C of the Standard states: "... maintaining a steady-state CO₂ concentration in a space of no greater than about 700 ppm above outdoor air levels will indicate that a substantial majority of visitors entering a space will be satisfied with respect to human bioeffluents (body odor)." This is the basis for ASHRAE's recommendations for concentrations of carbon dioxide in indoor air. The average concentrations measured inside the site buildings were less than 700 ppm above the ambient outdoor concentrations.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) for carbon dioxide in the workplace is 5,000 ppm. All readings were below this concentration.

The control panels for the methane monitors at both schools were inspected on November 9, 2010. The methane monitor control panels had stickers that indicated that the monitors were calibrated by Diamond Technical Services within the month prior to the inspection. Diamond Technical Services calibrates the sensors on a monthly basis. One sensor, GS-17 at the Middle school, was observed to have a fault reading on the day of the inspection. Another sensor at the middle school, GS-16, was reading 14% of LEL on the day of the inspection. Measurements made adjacent to this sensor during the indoor inspection yielded a 0% LEL reading, indicating that the sensor reading was faulty. The methane monitoring system at the Middle School was rechecked on December 7, 2010, and the fault reading and the sensor reading 14% LEL were both observed to be functioning normally.

Calibration Certificates from Diamond Calibration indicate that many of the sensors read above 0 when calibrated to the zero gas. This prevents the sensors from giving a fault alarm if the reading drops below zero due to a sudden temperature change, and still provides a conservative measure of protection because the alarm limit does not change.

GROUNDWATER MONITORING

Two of five groundwater monitoring wells were sampled by ARCADIS on November 19, 2010. Three monitoring wells, ATC-2, ATC-3, and ATC-5 were not able to be sampled because they were obstructed. Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from each well. Groundwater samples were collected in laboratory prepared sample jars and delivered under chain-of-custody protocol to Contest Laboratory in

East Longmeadow, Massachusetts for analysis for volatile organic compounds by EPA method 8260. The laboratory report is provided as Attachment B. Results of analysis of groundwater samples are summarized in Table 3.

The only compound detected in the samples collected during this round of monitoring was 1,4-dichlorobenzene detected at 1.5 µg/L in ATC-4. 1,4-dichlorobenzene is a chemical used in mothballs, air fresheners and toilet deodorizer blocks. The concentration detected was very low.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 28 locations on November 18 and 19, 2010. The sampling was conducted by placing an air sampling gripper cap on each well and attaching a piece of tubing. A volume of air equivalent to approximately 3 well volumes was removed from each well using a Sensidyne BDXII air sampling pump. Soil gas was then screened using a Landtec GEM 2000 Plus Landfill Gas Analyzer and a MiniRae Photoionization Detector (PID).

Air samples were also collected in Tedlar bags from wells WB-2 and MPL-6. The Tedlar bags were submitted to Con-test Analytical Laboratory for analysis for VOC via EPA method TO-14.

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4. Methane, carbon monoxide and hydrogen sulfide were not detected in any samples. Organic vapors was detected at one location, EPL-5, at a concentration of 0.3 ppm, which is less than the RAWP action level of 5 ppm.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.0% to 10.2%. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 25 readings exceeded the action level. The maximum concentration detected during this round was 10.2%. This is consistent with the pattern shown during previous rounds of declining carbon dioxide concentrations in the winter, and increasing concentrations in the summer. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for seven representative wells are presented in Attachment C.

The presence of carbon dioxide in soil gas is an indicator of subsurface bacterial activity and does not represent a threat to users of the property. The highest concentration of carbon dioxide was found in well MPL-3, located on the northern end of the property in the parking lot. The monitoring locations on the northern end of the property adjacent to large expanses of paved parking lot, sidewalk, and streets have typically had the highest carbon dioxide concentrations.

Soil Gas Laboratory Results

Soil gas samples were collected from soil gas wells MPL-6 and WB-2 in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 5, and the laboratory report is provided in Attachment B. The results of analysis were generally consistent with the concentrations and compounds which have been detected in previous monitoring events.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) are provided in Table 5 for comparison purposes even though they are not applicable to soil gas, because it does not represent exposure point concentrations. The PELs are the average concentrations that OSHA allows to be present in a workplace without any respiratory protection or exposure controls. The concentrations detected in soil gas were well below the OSHA PELs.

CONCLUSIONS

Methane, hydrogen sulfide, carbon monoxide and organic vapor concentrations did not exceed RAWP action levels in any soil gas or indoor air samples. Carbon dioxide concentrations exceeded the action level at many soil gas locations. The detection of carbon dioxide in soil gas is typical of what has been detected during previous monitoring events and appears to be a result of naturally occurring bacterial activity in the subsurface.

If you have any questions or require any additional information, please contact the undersigned at 401-738-3887, extension 25.

Sincerely,

ARCADIS U.S., Inc.

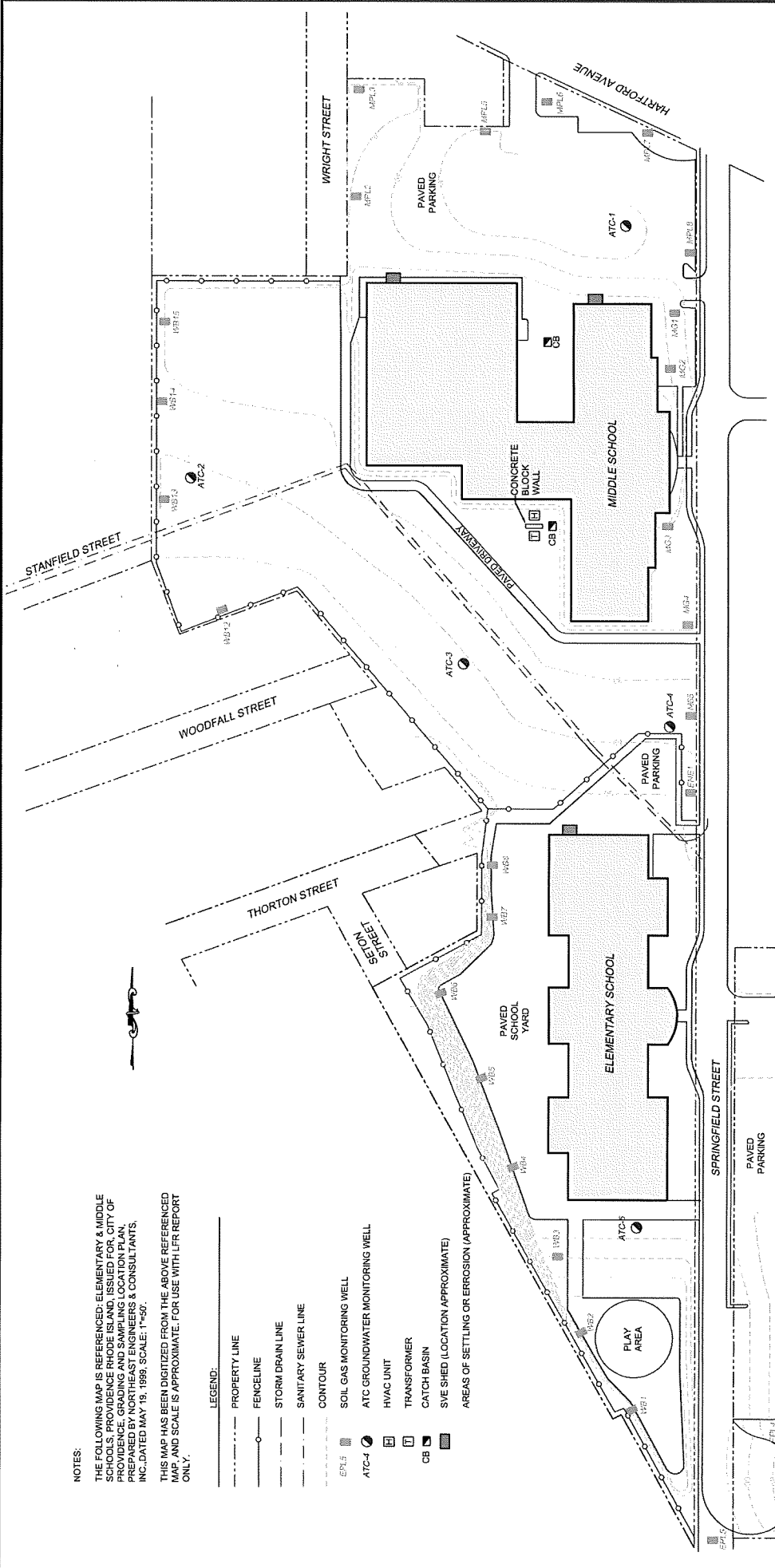
A handwritten signature in black ink, appearing to read "Donna H. Pallister". The signature is fluid and cursive, with the first name "Donna" being the most prominent.

Donna H. Pallister, PE, LSP
Senior Environmental Engineer

Copies:

S. Tremblay, Providence Schools
A. Sepe, City of Providence
Providence Public Building Authority

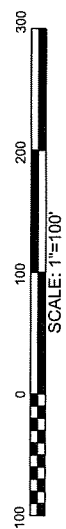
Figure



NOTES:
 THE FOLLOWING MAP IS REFERENCED: ELEMENTARY & MIDDLE SCHOOLS, PROVIDENCE RHODE ISLAND, ISSUED FOR, CITY OF PROVIDENCE, GRADING AND SAMPLING LOCATION PLAN, PREPARED BY WITHERS ENGINEERS & CONSULTANTS, INC. DATED MAY 19, 1999, SCALE: 1"=50'.
 THIS MAP HAS BEEN DIGITIZED FROM THE ABOVE REFERENCED MAP, AND SCALE IS APPROXIMATE. FOR USE WITH LFR REPORT ONLY.

- LEGEND:**
- PROPERTY LINE
 - - - FENCELINE
 - - - STORM DRAIN LINE
 - - - SANITARY SEWER LINE
 - - - CONTOUR
 - EP1.5 SOIL GAS MONITORING WELL
 - ATC-4 ATC GROUNDWATER MONITORING WELL
 - HVAC UNIT
 - TRANSFORMER
 - CATCH BASIN
 - CB SVE SHED (LOCATION APPROXIMATE)
 - AREAS OF SETTLING OR EROSION (APPROXIMATE)

	DATE:	4-7-08	4-7-08	DP	DP
	DRAWN BY:	PFH	PFH	DP	DP
250 Conant/116 Road Building E, Suite 12 Warwick, Rhode Island 02886 Phone: (401) 739-9897 Fax: (401) 732-1686	REVIEWED BY:	AS NOTED	AS NOTED	AS NOTED	AS NOTED
	APPROVED BY:	081-12027-00	081-12027-00	081-12027-00	081-12027-00
	SCALE:	FILE NO:	JOB NO:		
TITLE: SITE PLAN		FIGURE: 1			
LOCATION: SPRINGFIELD STREET SCHOOL COMPLEX		SPRINGFIELD STREET PROVIDENCE, RHODE ISLAND			



ARCADIS

Tables

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
November 9, 2010

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Elementary School inlet 1	0.0	0.5	20.1	0	0	0.5
Elementary School inlet 2	0.0	0.4	20.1	0	0	0.4
Elementary School Outlet	0.0	0.5	19.9	0	0	0.4
Middle School front shed inlet	0.0	0.2	20.5	0	0	0.4
Middle School front shed after 2 nd carbon	0.0	0.2	20.4	0	0	0.4
Middle School back shed inlet	0.0	0.5	20.3	0	0	0.4
Middle School back shed after 2 nd carbon	0.0	0.5	20.1	0	0	0.4
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Measurements made with: Landtech GEM 2000 Plus landfill gas meter, MiniRae2000 PID

Sampling date: 11/09/10

Measured by: D. Pallister

Table 2
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
November 9, 2010

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Front office	0	774	20.3	0	0	0.1
E.S. Elevator	0	788	20.3	0	0	0.4
E.S. Faculty Work Room	0	794	20.3	0	0	0.2
E.S. Gym	0	763	20.3	0	0	0.3
E.S. Stairway B	0	750	20.3	0	0	0.2
E.S. Stairway C	0	577	20.3	0	0	0.5
E.S. Library	0	622	20.3	0	0	0.4
E.S. Room 111 Music/Art Room	0	642	20.3	0	0	0.4
E.S. Cafeteria	0	775	20.3	0	0	0.6
E.S. Mechanical Room	0	647	20.3	0	0	0.2

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
November 9, 2010

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Office	0	599	20.9	0	0	0.0
M.S. Elevator	0	621	20.9	0	0	0.0
M.S. Stairway near Elem. School GS-01	0	633	20.9	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	990	20.9	0	0	0.3
M.S. Faculty Work Room	0	728	20.9	0	0	0.1
M.S. Music/Art Room	0	734	20.9	0	0	0.1
M.S. GS-03 Across from Boys Bathroom	0	624	20.9	0	0	0.2
M.S. Second Floor - Library	0	701	0	0	0	0.3
M.S. Cafeteria	0	966	20.9	0	0	0.3

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
November 9, 2010

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Hall near sensor #4	0	576	20.9	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	632	20.9	0	0	0.0
M.S. Near sensor GS 06 hallway right end	0	640	20.9	0	0	0.3
M.S. stairway near Hartford Ave. sensor GS-7	0	618	20.9	1	0	0.3
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Notes:

E.S. indicates Elementary School, M.S. indicates Middle School

Measurements made with: MiniRae2000, Fluke 975 Airmeter, QRAE multigas meter

PPM = Parts per million

Outdoor conditions: carbon monoxide = 0, carbon dioxide = 391, temperature = 54 °F.

Table 3
Summary of Ground Water Sampling Results
Springfield Street School Complex
Springfield Street
Providence, Rhode Island

Well	Detectable Compounds	2/28/2001	7/20/2001	9-13/2001	8/1/2002	8/28/2002	12/19/2002	3/18/2003	7/7/2003	11/5/2003	1/22/2004	5/11/2004	8/17/2004	1/22/2005	4/6/2005	7/27/2005	9/27/2005	10/26/2005	12/27/2005	8/31/2006	11/15/2006	3/27/2007	5/21/2007	8/20/2007	11/13/2007	2/13/2008	5/13/2008	8/25/2008	11/18/2008	2/17/2009	5/7/2009	8/25/2009	11/18/2009	3/1/2010	5/20/2010	8/25/2010	11/18/2010	PDEM GB Properties/ Objective					
ATC-1	Asbestos	8.1	ND	15.9	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
ATC-1	Chlorobenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	Dibenzodioxins	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	Dibenzofurans	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	Dibenzopentofurans	6.6	ND	17.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000	
ATC-1	Hexachlorocyclopentadienes	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	MTEB	12.4	7.0	23.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000		
ATC-1	Polychlorinated Biphenyls	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	
ATC-1	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	1,4-dioxins	2.2	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	1,4-dioxin-furans	3.6	ND	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-1	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-2	Chlorobenzene	0.8	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-3	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-4	Asbestos	ND	ND	2.1	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-4	Chlorobenzene	2.6	ND	57.3	2.7	6.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	
ATC-4	Dibenzodioxins	4.2	ND	9.2	4.1	9.36	ND	ND	ND	ND	0.80	1.6	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-4	MTEB	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.19	3.55	1.08	2.60	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000	
ATC-4	Dibenzofurans	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-4	Hexachlorocyclopentadienes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ATC-4	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND
ATC-5	MTEB	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000	
ATC-5	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Detections		ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR

*ATC Monitoring Report for September through December 2001 did not list data samples were collected.

ND is not detected above method detection limit

NE is not analyzed

NT: No applicable standard published

MTEB is Methylenebis(2-Ethyl)

ppb = micrograms per liter

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
November 19, 2010

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-1	0.0	2.1	19.1	0	0	0
WB-2	0.0	1.1	20.4	0	0	0
WB-3	0.0	0.3	20.8	0	0	0
WB-4	0.0	0.1	21.2	0	0	0
WB-5	0.0	0.0	21.4	0	0	0
WB-6	0.0	0.2	21.6	0	0	0
WB-7	0.0	0.1	21.8	0	0	0
WB-8	NM	NM	NM	NM	NM	NM
WB-12	0.0	1.2	20.0	0	0	0
WB-13	0.0	0.2	21.1	0	0	0
WB-14	0.0	0.2	21.1	0	0	0
WB-15	0.0	2.3	19.1	0	0	0
EPL-1	0.0	0.3	21.8	0	0	0
EPL-2	0.0	0.2	21.7	0	0	0
EPL-3	0.0	0.5	21.6	0	0	0
EPL-4	0.0	4.4	15.6	0	0	0
EPL-5	0.0	4.0	16.6	0	0	0.3
ENE-1	0.0	0.2	21.1	0	0	0

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
November 19, 2010

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	0.9	19.3	0	0	0.0
MG2	0.0	0.5	20.7	0	0	0.0
MG3	0.0	0.7	20.7	0	0	0.0
MG4	0.0	2.7	18.8	0	0	0.0
MG5	0.0	0.3	20.9	0	0	0.0
MPL2	0.0	4.4	15.8	0	0	0.0
MPL3	0.0	10.2	8.3	0	0	0.0
MPL5	0.0	9.4	10.6	0	0	0.0
MPL6	0.0	9.7	8.6	0	0	0.0
MPL7	0.0	9.1	11.8	0	0	0.0
MPL8	0.0	3.2	18.0	0	0	0.0
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM	NA	9 PPM	10 PPM	5 PPM

Sampled by: Chris Jamison

Weather Conditions:

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID, QRae 4 gas meter

NM = Not measured. Well WB-8 contained water to top of casing on day of sampling.

Table 5
 Results of Laboratory Analysis of Soil Gas
 Springfield Street School Complex
 Providence, Rhode Island

Parameter	OSHA PEL (ppb)	Results of Analysis in parts per billion by volume (PPBV)																																	
		M-1A															M-2																		
		2/28/2007	3/17/2007	4/22/2007	11/14/2007	5/14/2008	5/21/2008	11/26/2008	2/10/2009	7/7/2009	8/25/2009	11/19/2009	3/7/2010	5/21/2010	8/25/2010	11/19/2010	2/26/2011	5/16/2011	8/24/2011	11/14/2011	2/12/2012	5/17/2012	8/29/2012	11/29/2012	2/29/2013	5/12/2013	8/25/2013	11/16/2013	3/7/2014	6/11/2014	11/19/2014				
Benzene	1.000	ND	ND	0.36	0.78	ND	ND	0.45	1.0	0.3	0.31	0.31	2.40	0.29	0.18	0.32	0.37	0.25	ND	0.29	ND	ND	ND	0.21	0.48	0.23	0.25	ND	2.1	0.39	0.26	0.22	0.30	0.18	
Carbon Tetrachloride	10.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.02	ND	ND	ND	
Chlorobenzene	55.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	0.01	ND	ND	ND	
Chloroethane	1,000.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	50.000	ND	3.2	0.44	ND	ND	0.29	ND	0.10	ND	ND	0.11	0.17	0.17	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.02	0.12	ND	0.13	
Chloroform	100.000	ND	0.24	0.36	ND	ND	0.24	0.40	0.36	0.30	0.46	0.77	0.14	0.28	0.27	0.31	0.12	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.36	0.23	0.30	0.28	0.43	0.30	0.11
Dichlorodifluoromethane (Rasm 12)	1,000.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75.000	ND	ND	0.54	ND	ND	0.54	ND	0.33	ND	0.27	0.44	0.91	0.27	0.13	ND	ND	0.36	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.25	0.098	0.21	ND	ND	
1,1-Dichloroethane	100.000	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1,000.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachloro	100.000	ND	0.75	0.3	2.3	0.65	1.3	3.5	0.4	0.36	3.8	5.4	1.1	0.16	0.44	0.14	0.77	ND	0.58	0.46	3.7	0.78	0.41	1.3	0.33	0.42	2.0	4.6	0.6	0.26	0.37	0.30	0.33		
Methylene Chloride	100.000	ND	0.40	3.5	2	2.4	1.8	2.0	1.7	2.2	1.4	1.5	1.7	3.2	2.2	1.4	ND	0.31	0.4	4.0	2.5	3.4	1.0	2.2	1.1	2.0	1.8	1.4	1.0	1.0	1.7	1.1	1.1		
Styrene	100.000	ND	1.6	1.5	1.4	ND	1.1	1.0	0.3	0.36	2.4	3.2	1.0	0.26	0.1	1.2	0.1	ND	1.1	0.09	ND	0.5	1.5	0.1	0.47	1.3	1.1	0.51	0.31	1.6	1.1	0.75	0.75		
Trichloroethylene	100.000	ND	0.10	0.27	4.6	1.9	0.99	4.4	0.6	0.33	0.65	4.0	0.70	0.39	0.31	0.47	0.21	ND	0.36	0.41	3.4	2.7	0.44	1.6	0.4	0.70	1.0	1.2	0.43	0.71	0.70	0.44	0.44		
Ethene	300.000	4.4	17	7.2	19	8.3	9.7	64	4.4	30	71	3	0.86	37	1.2	0.83	4.8	17	5.3	10	0.1	30	1.8	7.3	19	29	2.4	1.4	0.4	0.4	0.4	0.4	0.4		
1,1,1-Trichloroethane	500.000	ND	ND	0.46	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	100.000	ND	0.25	0.93	4.1	1.4	1.7	ND	0.26	0.08	0.067	0.24	1.0	0.83	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane (Rasm 11)	1,000.000	ND	ND	0.46	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,1,2,2-tetrafluoroethane	1,000.000	ND	ND	0.27	ND	ND	ND	0.06	ND	ND	0.06	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachloro	100.000	ND	0.12	ND	ND	ND	0.28	3.7	0.11	ND	8.1	0.5	0.31	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	0.40	1.6	1.3	1.3	0.1	0.1	0.24	1.5	1.4	0.1	0.21	0.32	0.13	0.09	ND	1	0.26	1.7	1.1	0.66	1.6	0.66	0.52	1.2	1.2	0.6	0.20	0.62	0.30	0.30		
Styrene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mex Xylene	100.000	4.4	3.1	2.4	3.3	2.2	3.7	11	0.04	11	15	7	0.41	1.2	0.42	0.09	1.2	2.4	1.8	10	2.6	1.3	1.7	0.49	1.1	0.4	1.1	1.4	0.72	0.59	0.59	0.59	0.59		
o-Xylene	100.000	ND	0.4	0.48	1.4	0.46	1.4	5.1	0.2	0.72	4.9	4.3	1.7	0.15	0.34	0.11	0.23	ND	0.36	0.48	3.5	0.4	0.44	1.5	0.43	0.23	2.3	3.3	0.6	0.78	0.28	ND	0.24		

ND = Not Detected
 Only detected compounds are listed, see laboratory report for complete list on matrix.

Appendix A
Limitations & Service Constraints

LIMITATIONS AND SERVICE CONSTRAINTS

GENERAL REPORTS/DOCUMENT

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that ARCADIS relied upon any information prepared by other parties not under contract to ARCADIS, ARCADIS makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when ARCADIS's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

Appendix B
Laboratory Results

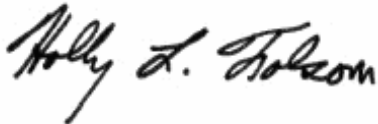
December 1, 2010

Donna Pallister
Arcadis US, Inc. - Warwick, RI
300 Metro Center Blvd., Suite 250
Warwick, RI 02886

Project Location: Springfield St, Providence, RI
Client Job Number:
Project Number: WK012152.00007
Laboratory Work Order Number: 10K0750

Enclosed are results of analyses for samples received by the laboratory on November 22, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Holly L. Folsom
Project Manager

Arcadis US, Inc. - Warwick, RI
300 Metro Center Blvd., Suite 250
Warwick, RI 02886
ATTN: Donna Pallister

REPORT DATE: 12/1/2010

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.00007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10K0750

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Springfield St, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ATC-1	10K0750-01	Ground Water		SW-846 8260B	
ATC-4	10K0750-02	Ground Water		SW-846 8260B	
Trip Blank	10K0750-03	Trip Blank Water		SW-846 8260B	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromoform

10K0750-01[ATC-1], 10K0750-02[ATC-4], 10K0750-03[Trip Blank], B022827-BLK1, B022827-BS1, B022827-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane (DBCP), Acetone, Carbon Disulfide

B022827-BS1, B022827-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromoform

10K0750-01[ATC-1], 10K0750-02[ATC-4], 10K0750-03[Trip Blank], B022827-BLK1, B022827-BS1, B022827-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane, tert-Butyl Alcohol (TBA)

10K0750-01[ATC-1], 10K0750-02[ATC-4], 10K0750-03[Trip Blank], B022827-BLK1, B022827-BS1, B022827-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B022827-BS1, B022827-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: ATC-1

Sampled: 11/19/2010 18:30

Sample ID: 10K0750-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 18:33	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Carbon Disulfide	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: ATC-1

Sampled: 11/19/2010 18:30

Sample ID: 10K0750-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:33	LBD

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	104	70-130	11/24/10 18:33
Toluene-d8	103	70-130	11/24/10 18:33
4-Bromofluorobenzene	98.9	70-130	11/24/10 18:33

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: ATC-4

Sampled: 11/19/2010 18:15

Sample ID: 10K0750-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 19:02	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Carbon Disulfide	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Chlorobenzene	1.0	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,4-Dichlorobenzene	1.5	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: ATC-4

Sampled: 11/19/2010 18:15

Sample ID: 10K0750-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 19:02	LBD

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	99.7	70-130	11/24/10 19:02
Toluene-d8	102	70-130	11/24/10 19:02
4-Bromofluorobenzene	99.4	70-130	11/24/10 19:02

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: Trip Blank

Sampled: 11/19/2010 00:00

Sample ID: 10K0750-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 18:03	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Carbon Disulfide	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Chloroform	2.8	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD

Project Location: Springfield St, Providence, RI

Sample Description:

Work Order: 10K0750

Date Received: 11/22/2010

Field Sample #: Trip Blank

Sampled: 11/19/2010 00:00

Sample ID: 10K0750-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	11/24/10	11/24/10 18:03	LBD

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	98.2	70-130	

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10K0750-01 [ATC-1]	B022827	5	5.00	11/24/10
10K0750-02 [ATC-4]	B022827	5	5.00	11/24/10
10K0750-03 [Trip Blank]	B022827	5	5.00	11/24/10

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B022827 - SW-846 5030B

Blank (B022827-BLK1)

Prepared & Analyzed: 11/24/10

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							L-04, V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B022827 - SW-846 5030B

Blank (B022827-BLK1)

Prepared & Analyzed: 11/24/10

Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.4		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.4	70-130			

LCS (B022827-BS1)

Prepared & Analyzed: 11/24/10

Acetone	155	50	µg/L	100		155	70-160			†
Acrylonitrile	9.48	5.0	µg/L	10.0		94.8	70-130			
tert-Amyl Methyl Ether (TAME)	9.07	0.50	µg/L	10.0		90.7	70-130			
Benzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromobenzene	8.43	1.0	µg/L	10.0		84.3	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	8.72	0.50	µg/L	10.0		87.2	70-130			
Bromoform	6.39	1.0	µg/L	10.0		63.9 *	70-130			L-04, V-05
Bromomethane	7.30	2.0	µg/L	10.0		73.0	40-160			V-20 †
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
tert-Butyl Alcohol (TBA)	75.4	20	µg/L	100		75.4	40-160			V-16 †
n-Butylbenzene	9.01	1.0	µg/L	10.0		90.1	70-130			
sec-Butylbenzene	8.81	1.0	µg/L	10.0		88.1	70-130			
tert-Butylbenzene	8.65	1.0	µg/L	10.0		86.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.78	0.50	µg/L	10.0		97.8	70-130			
Carbon Disulfide	14.1	2.0	µg/L	10.0		141 *	70-130			L-07
Carbon Tetrachloride	9.16	1.0	µg/L	10.0		91.6	70-130			
Chlorobenzene	8.89	1.0	µg/L	10.0		88.9	70-130			
Chlorodibromomethane	7.89	0.50	µg/L	10.0		78.9	70-130			
Chloroethane	10.8	2.0	µg/L	10.0		108	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	7.36	2.0	µg/L	10.0		73.6	40-160			†
2-Chlorotoluene	9.05	1.0	µg/L	10.0		90.5	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B022827 - SW-846 5030B										
LCS (B022827-BS1)										
Prepared & Analyzed: 11/24/10										
4-Chlorotoluene	9.27	1.0	µg/L	10.0		92.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.76	5.0	µg/L	10.0		67.6 *	70-130			L-07
1,2-Dibromoethane (EDB)	8.23	0.50	µg/L	10.0		82.3	70-130			
Dibromomethane	8.68	1.0	µg/L	10.0		86.8	70-130			
1,2-Dichlorobenzene	8.51	1.0	µg/L	10.0		85.1	70-130			
1,3-Dichlorobenzene	8.73	1.0	µg/L	10.0		87.3	70-130			
1,4-Dichlorobenzene	8.57	1.0	µg/L	10.0		85.7	70-130			
trans-1,4-Dichloro-2-butene	7.48	2.0	µg/L	10.0		74.8	70-130			
Dichlorodifluoromethane (Freon 12)	6.57	2.0	µg/L	10.0		65.7	40-160			†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloroethane	8.95	1.0	µg/L	10.0		89.5	70-130			
1,1-Dichloroethylene	12.2	1.0	µg/L	10.0		122	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
trans-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130			
1,2-Dichloropropane	8.88	1.0	µg/L	10.0		88.8	70-130			
1,3-Dichloropropane	8.68	0.50	µg/L	10.0		86.8	70-130			
2,2-Dichloropropane	9.71	1.0	µg/L	10.0		97.1	40-130			†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130			
cis-1,3-Dichloropropene	7.82	0.50	µg/L	10.0		78.2	70-130			
trans-1,3-Dichloropropene	8.36	0.50	µg/L	10.0		83.6	70-130			
Diethyl Ether	11.9	2.0	µg/L	10.0		119	70-130			
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130			
1,4-Dioxane	73.2	50	µg/L	100		73.2	40-130			V-16 †
Ethylbenzene	8.99	1.0	µg/L	10.0		89.9	70-130			
Hexachlorobutadiene	8.25	0.50	µg/L	10.0		82.5	70-130			
2-Hexanone (MBK)	93.4	10	µg/L	100		93.4	70-160			†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130			
p-Isopropyltoluene (p-Cymene)	8.77	1.0	µg/L	10.0		87.7	70-130			
Methyl tert-Butyl Ether (MTBE)	9.72	1.0	µg/L	10.0		97.2	70-130			
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130			
4-Methyl-2-pentanone (MIBK)	85.1	10	µg/L	100		85.1	70-160			†
Naphthalene	8.12	2.0	µg/L	10.0		81.2	40-130			†
n-Propylbenzene	9.12	1.0	µg/L	10.0		91.2	70-130			
Styrene	8.60	1.0	µg/L	10.0		86.0	70-130			
1,1,1,2-Tetrachloroethane	7.82	1.0	µg/L	10.0		78.2	70-130			
1,1,2,2-Tetrachloroethane	7.70	0.50	µg/L	10.0		77.0	70-130			
Tetrachloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130			
Tetrahydrofuran	9.67	10	µg/L	10.0		96.7	70-130			
Toluene	9.43	1.0	µg/L	10.0		94.3	70-130			
1,2,3-Trichlorobenzene	8.32	5.0	µg/L	10.0		83.2	70-130			
1,2,4-Trichlorobenzene	8.47	1.0	µg/L	10.0		84.7	70-130			
1,3,5-Trichlorobenzene	8.54	1.0	µg/L	10.0		85.4	70-130			
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1,2-Trichloroethane	8.85	1.0	µg/L	10.0		88.5	70-130			
Trichloroethylene	9.31	1.0	µg/L	10.0		93.1	70-130			
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130			
1,2,3-Trichloropropane	6.90	2.0	µg/L	10.0		69.0 *	70-130			L-07
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5	1.0	µg/L	10.0		125	70-130			
1,2,4-Trimethylbenzene	8.44	1.0	µg/L	10.0		84.4	70-130			
1,3,5-Trimethylbenzene	8.91	1.0	µg/L	10.0		89.1	70-130			
Vinyl Chloride	10.5	2.0	µg/L	10.0		105	40-160			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B022827 - SW-846 5030B

LCS (B022827-BS1)

Prepared & Analyzed: 11/24/10

m+p Xylene	18.2	2.0	µg/L	20.0		90.8	70-130			
o-Xylene	8.90	1.0	µg/L	10.0		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	70-130			

LCS Dup (B022827-BS1)

Prepared & Analyzed: 11/24/10

Acetone	162	50	µg/L	100		162 *	70-160	4.34	25	L-07 †
Acrylonitrile	10.1	5.0	µg/L	10.0		101	70-130	6.04	25	
tert-Amyl Methyl Ether (TAME)	9.19	0.50	µg/L	10.0		91.9	70-130	1.31	25	
Benzene	9.91	1.0	µg/L	10.0		99.1	70-130	4.92	25	
Bromobenzene	8.21	1.0	µg/L	10.0		82.1	70-130	2.64	25	
Bromochloromethane	9.99	1.0	µg/L	10.0		99.9	70-130	3.83	25	
Bromodichloromethane	8.33	0.50	µg/L	10.0		83.3	70-130	4.57	25	
Bromoform	6.38	1.0	µg/L	10.0		63.8 *	70-130	0.157	25	L-04, V-05
Bromomethane	8.11	2.0	µg/L	10.0		81.1	40-160	10.5	25	V-20 †
2-Butanone (MEK)	111	20	µg/L	100		111	40-160	7.47	25	†
tert-Butyl Alcohol (TBA)	96.8	20	µg/L	100		96.8	40-160	24.8	25	V-16 †
n-Butylbenzene	8.63	1.0	µg/L	10.0		86.3	70-130	4.31	25	
sec-Butylbenzene	8.33	1.0	µg/L	10.0		83.3	70-130	5.60	25	
tert-Butylbenzene	8.24	1.0	µg/L	10.0		82.4	70-130	4.85	25	
tert-Butyl Ethyl Ether (TBEE)	9.65	0.50	µg/L	10.0		96.5	70-130	1.34	25	
Carbon Disulfide	12.6	2.0	µg/L	10.0		126	70-130	10.8	25	
Carbon Tetrachloride	8.78	1.0	µg/L	10.0		87.8	70-130	4.24	25	
Chlorobenzene	8.53	1.0	µg/L	10.0		85.3	70-130	4.13	25	
Chlorodibromomethane	8.06	0.50	µg/L	10.0		80.6	70-130	2.13	25	
Chloroethane	9.84	2.0	µg/L	10.0		98.4	70-130	9.76	25	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	4.19	25	
Chloromethane	6.70	2.0	µg/L	10.0		67.0	40-160	9.39	25	†
2-Chlorotoluene	8.49	1.0	µg/L	10.0		84.9	70-130	6.39	25	
4-Chlorotoluene	8.80	1.0	µg/L	10.0		88.0	70-130	5.20	25	
1,2-Dibromo-3-chloropropane (DBCP)	7.67	5.0	µg/L	10.0		76.7	70-130	12.6	25	
1,2-Dibromoethane (EDB)	8.38	0.50	µg/L	10.0		83.8	70-130	1.81	25	
Dibromomethane	8.90	1.0	µg/L	10.0		89.0	70-130	2.50	25	
1,2-Dichlorobenzene	8.27	1.0	µg/L	10.0		82.7	70-130	2.86	25	
1,3-Dichlorobenzene	8.31	1.0	µg/L	10.0		83.1	70-130	4.93	25	
1,4-Dichlorobenzene	8.29	1.0	µg/L	10.0		82.9	70-130	3.32	25	
trans-1,4-Dichloro-2-butene	8.38	2.0	µg/L	10.0		83.8	70-130	11.3	25	
Dichlorodifluoromethane (Freon 12)	6.19	2.0	µg/L	10.0		61.9	40-160	5.96	25	†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	3.97	25	
1,2-Dichloroethane	8.75	1.0	µg/L	10.0		87.5	70-130	2.26	25	
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	12.3	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	4.59	25	
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	5.78	25	
1,2-Dichloropropane	8.78	1.0	µg/L	10.0		87.8	70-130	1.13	25	
1,3-Dichloropropane	8.84	0.50	µg/L	10.0		88.4	70-130	1.83	25	
2,2-Dichloropropane	9.47	1.0	µg/L	10.0		94.7	40-130	2.50	25	†
1,1-Dichloropropene	9.84	2.0	µg/L	10.0		98.4	70-130	5.92	25	
cis-1,3-Dichloropropene	7.94	0.50	µg/L	10.0		79.4	70-130	1.52	25	
trans-1,3-Dichloropropene	8.65	0.50	µg/L	10.0		86.5	70-130	3.41	25	
Diethyl Ether	11.9	2.0	µg/L	10.0		119	70-130	0.00	25	
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.0		110	70-130	3.32	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B022827 - SW-846 5030B

LCS Dup (B022827-BSD1)

Prepared & Analyzed: 11/24/10

1,4-Dioxane	118	50	µg/L	100		118	40-130	47.1	50	V-16 † ‡
Ethylbenzene	8.56	1.0	µg/L	10.0		85.6	70-130	4.90	25	
Hexachlorobutadiene	8.36	0.50	µg/L	10.0		83.6	70-130	1.32	25	
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160	10.3	25	†
Isopropylbenzene (Cumene)	9.53	1.0	µg/L	10.0		95.3	70-130	6.79	25	
p-Isopropyltoluene (p-Cymene)	8.41	1.0	µg/L	10.0		84.1	70-130	4.19	25	
Methyl tert-Butyl Ether (MTBE)	9.89	1.0	µg/L	10.0		98.9	70-130	1.73	25	
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130	7.74	25	
4-Methyl-2-pentanone (MIBK)	91.1	10	µg/L	100		91.1	70-160	6.75	25	†
Naphthalene	8.59	2.0	µg/L	10.0		85.9	40-130	5.63	25	†
n-Propylbenzene	8.76	1.0	µg/L	10.0		87.6	70-130	4.03	25	
Styrene	8.33	1.0	µg/L	10.0		83.3	70-130	3.19	25	
1,1,1,2-Tetrachloroethane	7.49	1.0	µg/L	10.0		74.9	70-130	4.31	25	
1,1,2,2-Tetrachloroethane	8.06	0.50	µg/L	10.0		80.6	70-130	4.57	25	
Tetrachloroethylene	9.13	1.0	µg/L	10.0		91.3	70-130	2.17	25	
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130	5.04	25	
Toluene	9.09	1.0	µg/L	10.0		90.9	70-130	3.67	25	
1,2,3-Trichlorobenzene	8.60	5.0	µg/L	10.0		86.0	70-130	3.31	25	
1,2,4-Trichlorobenzene	8.41	1.0	µg/L	10.0		84.1	70-130	0.711	25	
1,3,5-Trichlorobenzene	8.43	1.0	µg/L	10.0		84.3	70-130	1.30	25	
1,1,1-Trichloroethane	9.68	1.0	µg/L	10.0		96.8	70-130	4.35	25	
1,1,2-Trichloroethane	8.95	1.0	µg/L	10.0		89.5	70-130	1.12	25	
Trichloroethylene	8.86	1.0	µg/L	10.0		88.6	70-130	4.95	25	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	8.50	25	
1,2,3-Trichloropropane	7.28	2.0	µg/L	10.0		72.8	70-130	5.36	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117	70-130	6.19	25	
1,2,4-Trimethylbenzene	8.06	1.0	µg/L	10.0		80.6	70-130	4.61	25	
1,3,5-Trimethylbenzene	8.52	1.0	µg/L	10.0		85.2	70-130	4.48	25	
Vinyl Chloride	9.82	2.0	µg/L	10.0		98.2	40-160	6.88	25	†
m+p Xylene	17.4	2.0	µg/L	20.0		86.9	70-130	4.39	25	
o-Xylene	8.59	1.0	µg/L	10.0		85.9	70-130	3.54	25	
Surrogate: 1,2-Dichloroethane-d4	25.5		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		99.8	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Water</i>	
Acetone	CT,NH,NY,NC
Acrylonitrile	CT,NY,NC,RI
tert-Amyl Methyl Ether (TAME)	NH,NY,NC
Benzene	CT,NH,NY,NC,RI
Bromobenzene	NC
Bromochloromethane	NH,NY,NC
Bromodichloromethane	CT,NH,NY,NC,RI
Bromoform	CT,NH,NY,NC,RI
Bromomethane	CT,NH,NY,NC,RI
2-Butanone (MEK)	CT,NH,NY,NC
tert-Butyl Alcohol (TBA)	NH,NY,NC
n-Butylbenzene	NY,NC
sec-Butylbenzene	NY,NC
tert-Butylbenzene	NY,NC
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC
Carbon Disulfide	CT,NH,NY,NC
Carbon Tetrachloride	CT,NH,NY,NC,RI
Chlorobenzene	CT,NH,NY,NC,RI
Chlorodibromomethane	CT,NH,NY,NC,RI
Chloroethane	CT,NH,NY,NC,RI
Chloroform	CT,NH,NY,NC,RI
Chloromethane	CT,NH,NY,NC,RI
2-Chlorotoluene	NY,NC
4-Chlorotoluene	NY,NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC
1,2-Dichlorobenzene	CT,NY,NC,RI
1,3-Dichlorobenzene	CT,NH,NY,NC,RI
1,4-Dichlorobenzene	CT,NH,NY,NC,RI
trans-1,4-Dichloro-2-butene	NH,NY,NC
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,RI
1,1-Dichloroethane	CT,NH,NY,NC,RI
1,2-Dichloroethane	CT,NH,NY,NC,RI
1,1-Dichloroethylene	CT,NH,NY,NC,RI
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	CT,NH,NY,NC,RI
1,2-Dichloropropane	CT,NH,NY,NC,RI
1,3-Dichloropropane	NY,NC
2,2-Dichloropropane	NH,NY,NC
1,1-Dichloropropene	NH,NY,NC
cis-1,3-Dichloropropene	CT,NH,NY,NC,RI
trans-1,3-Dichloropropene	CT,NH,NY,NC,RI
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NH,NY,NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,RI

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Water</i>	
Hexachlorobutadiene	CT,NH,NY,NC
2-Hexanone (MBK)	CT,NH,NY,NC
Isopropylbenzene (Cumene)	NY,NC
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC
Methylene Chloride	CT,NH,NY,NC,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC
n-Propylbenzene	CT,NH,NY,NC
Styrene	CT,NH,NY,NC
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,RI
Tetrachloroethylene	CT,NH,NY,NC,RI
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,RI
1,2,3-Trichlorobenzene	NH,NY,NC
1,2,4-Trichlorobenzene	CT,NH,NY,NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	CT,NH,NY,NC,RI
1,1,2-Trichloroethane	CT,NH,NY,NC,RI
Trichloroethylene	CT,NH,NY,NC,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,RI
1,2,3-Trichloropropane	NH,NY,NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NY,NC
1,3,5-Trimethylbenzene	NY,NC
Vinyl Chloride	CT,NH,NY,NC,RI
m+p Xylene	CT,NH,NY,NC,RI
o-Xylene	CT,NH,NY,NC,RI

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



con-test
ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: RECADIS

Address: 300 Metro Center Blvd Suite 250

Attention: Donna Rousseau

Project # 10K0750

Client PO# 10012152.0001

Telephone: 401-738-3887

Project Location: SPARKFIELD ST PROVIDENCE RI

Project # 10012152.0001

Client PO# 10012152.0001

Sampled By: C. Jamison

Project Proposal Provided? (for billing purposes)
 Yes No

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Proposal Provided? (for billing purposes)
 Yes No

Format: PDF EXCEL GIS

Enhanced Data Package? Yes No

Con-Test Lab ID -01

Client Sample ID / Description ATC-1

Beginning Date/Time 11/19/10

Ending Date/Time 11/19/10

Con-Test Lab ID 02

Client Sample ID / Description ATC-4

Beginning Date/Time 11/19/10

Ending Date/Time 11/19/10

Con-Test Lab ID 03

Client Sample ID / Description TRP BRANC

Beginning Date/Time 11/19/10

Ending Date/Time 11/19/10

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Date	Form Code	Analysis Requested	# of Containers	Preservative	Container
-01	ATC-1	11/19/10	11/19/10	X	X	GW	GW	VOC 8260	7	H	
02	ATC-4	11/19/10	11/19/10	X	X	GW	GW				
03	TRP BRANC	11/19/10	11/19/10	X	X	GW	GW				

Comments:

Turnaround 7-Day 10-Day Other 5.5D
 12-Hr 148-Hr 172-Hr 14-Day

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: AL CR

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required PW/SID # _____



NELAC & AIHA Certified
WBE/DBE Certified



Sample Receipt Checklist

CLIENT NAME: Arcadis RECEIVED BY: CB DATE: 11/22/10

1) Was the chain(s) of custody relinquished and signed? Yes No
2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4.0°C Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

8) Location where samples are stored:

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	<u>7</u>	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl 7 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

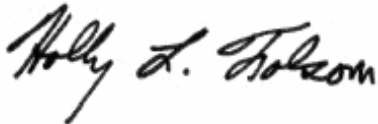
November 30, 2010

Donna Pallister
Arcadis US, Inc. - Warwick, RI
300 Metro Center Blvd., Suite 250
Warwick, RI 02886

Project Location: Springfield St.
Client Job Number:
Project Number: WK012152.0007
Laboratory Work Order Number: 10K0698

Enclosed are results of analyses for samples received by the laboratory on November 19, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Holly L. Folsom". The signature is written in a cursive, flowing style.

Holly L. Folsom
Project Manager

Arcadis US, Inc. - Warwick, RI
300 Metro Center Blvd., Suite 250
Warwick, RI 02886
ATTN: Donna Pallister

REPORT DATE: 11/30/2010

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10K0698

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Springfield St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MPL-6	10K0698-01	Air		EPA TO-14A	
WB-2	10K0698-02	Air		EPA TO-14A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

ANALYTICAL RESULTS

Project Location: Springfield St.
 Date Received: 11/19/2010
Field Sample #: MPL-6
Sample ID: 10K0698-01
 Sample Matrix: Air
 Sampled: 11/19/2010 09:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 10K0698
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analized		
Benzene	0.25	0.10		0.79	0.32	2	11/20/10 7:57	TPH	
Bromomethane	ND	0.10		ND	0.39	2	11/20/10 7:57	TPH	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	11/20/10 7:57	TPH	
Chlorobenzene	ND	0.10		ND	0.46	2	11/20/10 7:57	TPH	
Chloroethane	ND	0.10		ND	0.26	2	11/20/10 7:57	TPH	
Chloroform	ND	0.10		ND	0.49	2	11/20/10 7:57	TPH	
Chloromethane	0.12	0.10		0.24	0.21	2	11/20/10 7:57	TPH	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	11/20/10 7:57	TPH	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10 7:57	TPH	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10 7:57	TPH	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10 7:57	TPH	
Dichlorodifluoromethane (Freon 12)	0.34	0.10		1.7	0.49	2	11/20/10 7:57	TPH	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	11/20/10 7:57	TPH	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	11/20/10 7:57	TPH	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	11/20/10 7:57	TPH	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	11/20/10 7:57	TPH	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	11/20/10 7:57	TPH	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	11/20/10 7:57	TPH	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	11/20/10 7:57	TPH	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	11/20/10 7:57	TPH	
Ethylbenzene	0.22	0.10		0.96	0.43	2	11/20/10 7:57	TPH	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	11/20/10 7:57	TPH	
Methylene Chloride	1.4	0.20		4.9	0.69	2	11/20/10 7:57	TPH	
Styrene	0.34	0.10		1.4	0.43	2	11/20/10 7:57	TPH	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	11/20/10 7:57	TPH	
Tetrachloroethylene	0.25	0.10		1.7	0.68	2	11/20/10 7:57	TPH	
Toluene	0.83	0.10		3.1	0.38	2	11/20/10 7:57	TPH	
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	11/20/10 7:57	TPH	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	11/20/10 7:57	TPH	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	11/20/10 7:57	TPH	
Trichloroethylene	0.63	0.10		3.4	0.54	2	11/20/10 7:57	TPH	
Trichlorofluoromethane (Freon 11)	0.44	0.10		2.5	0.56	2	11/20/10 7:57	TPH	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	11/20/10 7:57	TPH	
1,2,4-Trimethylbenzene	0.39	0.10		1.9	0.49	2	11/20/10 7:57	TPH	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	11/20/10 7:57	TPH	
Vinyl Chloride	ND	0.10		ND	0.26	2	11/20/10 7:57	TPH	
m&p-Xylene	0.59	0.20		2.6	0.87	2	11/20/10 7:57	TPH	
o-Xylene	0.23	0.10		1.0	0.43	2	11/20/10 7:57	TPH	

ANALYTICAL RESULTS

Project Location: Springfield St.
 Date Received: 11/19/2010
Field Sample #: MPL-6
Sample ID: 10K0698-01
 Sample Matrix: Air
 Sampled: 11/19/2010 09:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 10K0698
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv			ug/m3		Date/Time		
	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)		95.0			70-130		11/20/10 7:57	

ANALYTICAL RESULTS

Project Location: Springfield St.
 Date Received: 11/19/2010
Field Sample #: WB-2
Sample ID: 10K0698-02
 Sample Matrix: Air
 Sampled: 11/19/2010 10:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 10K0698
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.18	0.10		0.58	0.32	2	11/20/10	8:37	TPH
Bromomethane	ND	0.10		ND	0.39	2	11/20/10	8:37	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	11/20/10	8:37	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	11/20/10	8:37	TPH
Chloroethane	ND	0.10		ND	0.26	2	11/20/10	8:37	TPH
Chloroform	0.15	0.10		0.75	0.49	2	11/20/10	8:37	TPH
Chloromethane	0.11	0.10		0.23	0.21	2	11/20/10	8:37	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	11/20/10	8:37	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10	8:37	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10	8:37	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	11/20/10	8:37	TPH
Dichlorodifluoromethane (Freon 12)	0.44	0.10		2.2	0.49	2	11/20/10	8:37	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	11/20/10	8:37	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	11/20/10	8:37	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	11/20/10	8:37	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	11/20/10	8:37	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	11/20/10	8:37	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	11/20/10	8:37	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	11/20/10	8:37	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	11/20/10	8:37	TPH
Ethylbenzene	0.23	0.10		0.99	0.43	2	11/20/10	8:37	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	11/20/10	8:37	TPH
Methylene Chloride	1.5	0.20		5.3	0.69	2	11/20/10	8:37	TPH
Styrene	0.37	0.10		1.6	0.43	2	11/20/10	8:37	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	11/20/10	8:37	TPH
Tetrachloroethylene	0.18	0.10		1.2	0.68	2	11/20/10	8:37	TPH
Toluene	0.75	0.10		2.8	0.38	2	11/20/10	8:37	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	11/20/10	8:37	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	11/20/10	8:37	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	11/20/10	8:37	TPH
Trichloroethylene	0.15	0.10		0.82	0.54	2	11/20/10	8:37	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.10		1.6	0.56	2	11/20/10	8:37	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	11/20/10	8:37	TPH
1,2,4-Trimethylbenzene	0.38	0.10		1.9	0.49	2	11/20/10	8:37	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	11/20/10	8:37	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	11/20/10	8:37	TPH
m&p-Xylene	0.59	0.20		2.6	0.87	2	11/20/10	8:37	TPH
o-Xylene	0.24	0.10		1.0	0.43	2	11/20/10	8:37	TPH

ANALYTICAL RESULTS

Project Location: Springfield St.
 Date Received: 11/19/2010
Field Sample #: WB-2
Sample ID: 10K0698-02
 Sample Matrix: Air
 Sampled: 11/19/2010 10:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 10K0698
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv			ug/m3		Date/Time		
	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)		95.8			70-130		11/20/10 8:37	

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-14A

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
10K0698-01 [MPL-6]	B022870	1	1	N/A	1000	400	200	11/19/10
10K0698-02 [WB-2]	B022870	1	1	N/A	1000	400	200	11/19/10

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD		
Batch B022870 - TO-15 Prep											
Blank (B022870-BLK1)						Prepared & Analyzed: 11/19/10					
Benzene	ND	0.050									
Bromomethane	ND	0.050									
Carbon Tetrachloride	ND	0.050									
Chlorobenzene	ND	0.050									
Chloroethane	ND	0.050									
Chloroform	ND	0.050									
Chloromethane	ND	0.050									
1,2-Dibromoethane (EDB)	ND	0.050									
1,2-Dichlorobenzene	ND	0.050									
1,3-Dichlorobenzene	ND	0.050									
1,4-Dichlorobenzene	ND	0.050									
Dichlorodifluoromethane (Freon 12)	ND	0.050									
1,1-Dichloroethane	ND	0.050									
1,2-Dichloroethane	ND	0.050									
1,1-Dichloroethylene	ND	0.050									
cis-1,2-Dichloroethylene	ND	0.050									
1,2-Dichloropropane	ND	0.050									
cis-1,3-Dichloropropene	ND	0.050									
trans-1,3-Dichloropropene	ND	0.050									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050									
Ethylbenzene	ND	0.050									
Hexachlorobutadiene	ND	0.050									
Methylene Chloride	ND	0.10									
Styrene	ND	0.050									
1,1,2,2-Tetrachloroethane	ND	0.050									
Tetrachloroethylene	ND	0.050									
Toluene	ND	0.050									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.050									
1,1,2-Trichloroethane	ND	0.050									
Trichloroethylene	ND	0.050									
Trichlorofluoromethane (Freon 11)	ND	0.050									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050									
1,2,4-Trimethylbenzene	ND	0.050									
1,3,5-Trimethylbenzene	ND	0.050									
Vinyl Chloride	ND	0.050									
m&p-Xylene	ND	0.10									
o-Xylene	ND	0.050									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.53				8.00		94.1	70-130			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
Batch B022870 - TO-15 Prep											
LCS (B022870-BS1)											
						Prepared & Analyzed: 11/19/10					
Benzene	4.76				5.00		95.1	70-130			
Bromomethane	3.68				5.00		73.5	70-130			
Carbon Tetrachloride	4.73				5.00		94.6	70-130			
Chlorobenzene	4.71				5.00		94.2	70-130			
Chloroethane	4.03				5.00		80.5	70-130			
Chloroform	5.14				5.00		103	70-130			
Chloromethane	3.95				5.00		78.9	70-130			
1,2-Dibromoethane (EDB)	4.62				5.00		92.5	70-130			
1,2-Dichlorobenzene	4.65				5.00		93.0	70-130			
1,3-Dichlorobenzene	4.78				5.00		95.6	70-130			
1,4-Dichlorobenzene	4.70				5.00		93.9	70-130			
Dichlorodifluoromethane (Freon 12)	4.68				5.00		93.5	70-130			
1,1-Dichloroethane	4.96				5.00		99.1	70-130			
1,2-Dichloroethane	4.60				5.00		92.0	70-130			
1,1-Dichloroethylene	4.90				5.00		98.0	70-130			
cis-1,2-Dichloroethylene	4.95				5.00		99.0	70-130			
1,2-Dichloropropane	4.62				5.00		92.5	70-130			
cis-1,3-Dichloropropene	5.12				5.00		102	70-130			
trans-1,3-Dichloropropene	4.52				5.00		90.4	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.78				5.00		75.7	70-130			
Ethylbenzene	4.66				5.00		93.1	70-130			
Hexachlorobutadiene	4.43				5.00		88.5	70-130			
Methylene Chloride	4.48				5.00		89.6	70-130			
Styrene	4.72				5.00		94.3	70-130			
1,1,2,2-Tetrachloroethane	4.64				5.00		92.7	70-130			
Tetrachloroethylene	4.78				5.00		95.6	70-130			
Toluene	4.68				5.00		93.7	70-130			
1,2,4-Trichlorobenzene	4.34				5.00		86.8	70-130			
1,1,1-Trichloroethane	4.63				5.00		92.7	70-130			
1,1,2-Trichloroethane	4.94				5.00		98.8	70-130			
Trichloroethylene	4.90				5.00		98.0	70-130			
Trichlorofluoromethane (Freon 11)	4.58				5.00		91.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.28				5.00		106	70-130			
1,2,4-Trimethylbenzene	4.63				5.00		92.7	70-130			
1,3,5-Trimethylbenzene	4.57				5.00		91.3	70-130			
Vinyl Chloride	4.08				5.00		81.5	70-130			
m&p-Xylene	9.42				10.0		94.2	70-130			
o-Xylene	4.60				5.00		92.1	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.61</i>				<i>8.00</i>		<i>95.2</i>	<i>70-130</i>			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

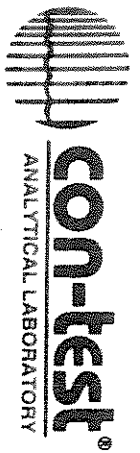
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-14A in Air</i>	
Benzene	AIHA,FL,NY
Bromomethane	AIHA,FL,NY
Carbon Tetrachloride	AIHA,FL,NY
Chlorobenzene	AIHA,FL,NY
Chloroethane	AIHA,FL,NY
Chloroform	AIHA,FL,NY
Chloromethane	AIHA,FL,NY
1,2-Dichlorobenzene	AIHA,FL,NY
1,3-Dichlorobenzene	AIHA,FL,NY
1,4-Dichlorobenzene	AIHA,FL,NY
Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
1,1-Dichloroethane	AIHA,FL,NY
1,2-Dichloroethane	AIHA,FL,NY
1,1-Dichloroethylene	AIHA,FL,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
1,2-Dichloropropane	AIHA,FL,NY
cis-1,3-Dichloropropene	AIHA,FL,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,FL,NY
Ethylbenzene	AIHA,FL,NY
Hexachlorobutadiene	AIHA,FL,NY
Methylene Chloride	AIHA,FL,NY
Styrene	AIHA,FL,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NY
Toluene	AIHA,FL,NY
1,2,4-Trichlorobenzene	AIHA,FL,NY
1,1,1-Trichloroethane	AIHA,FL,NY
1,1,2-Trichloroethane	AIHA,FL,NY
Trichloroethylene	AIHA,FL,NY
Trichlorofluoromethane (Freon 11)	AIHA,FL,NY
1,2,4-Trimethylbenzene	AIHA,FL,NY
1,3,5-Trimethylbenzene	AIHA,FL,NY
Vinyl Chloride	AIHA,FL,NY
m&p-Xylene	AIHA,FL,NY
o-Xylene	AIHA,FL,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Page _____

Company Name: ARCADIS

Address: 300 WEBB CENTER BLVD

WARREN RT 02886

Attention: DANIEL PULSTER

Project Location: STRICKFIELD ST

Sampled By: CHRIS HANCOCK

Proposal Provided? (For Billing purposes)
 yes no

State Form Required?
 yes no

Telephone: (401) 238-3887

Project # WA002157.0007

Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____

Email: _____

Format: EXCEL PDF GIS KEY

OTHER

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp. site	Grab	*Matrix Conc. Code
	MPL-6	10K0698	11/16/10 0530				X
	WR-2	-02	11/16/10 1030				X

Client: _____

Comments: _____

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround **

7-Day

10-Day

Other RUSH *

*24-Hr *48-Hr

*72-Hr *1-Day

* Require lab approval

Detection Limit Requirements

Regulations? RI

Data Enhancement Project/RCP? Y N

Special Requirements or DL's: _____

***Matrix Codes:**

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

****Preservation Codes:**

I = Iced X = Na hydroxide

H = HCL T = Na thiosulfate

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

**TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT



www.contestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Arcadis
RECEIVED BY: TEC DATE: 11/19/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE: _____

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored: Airlab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

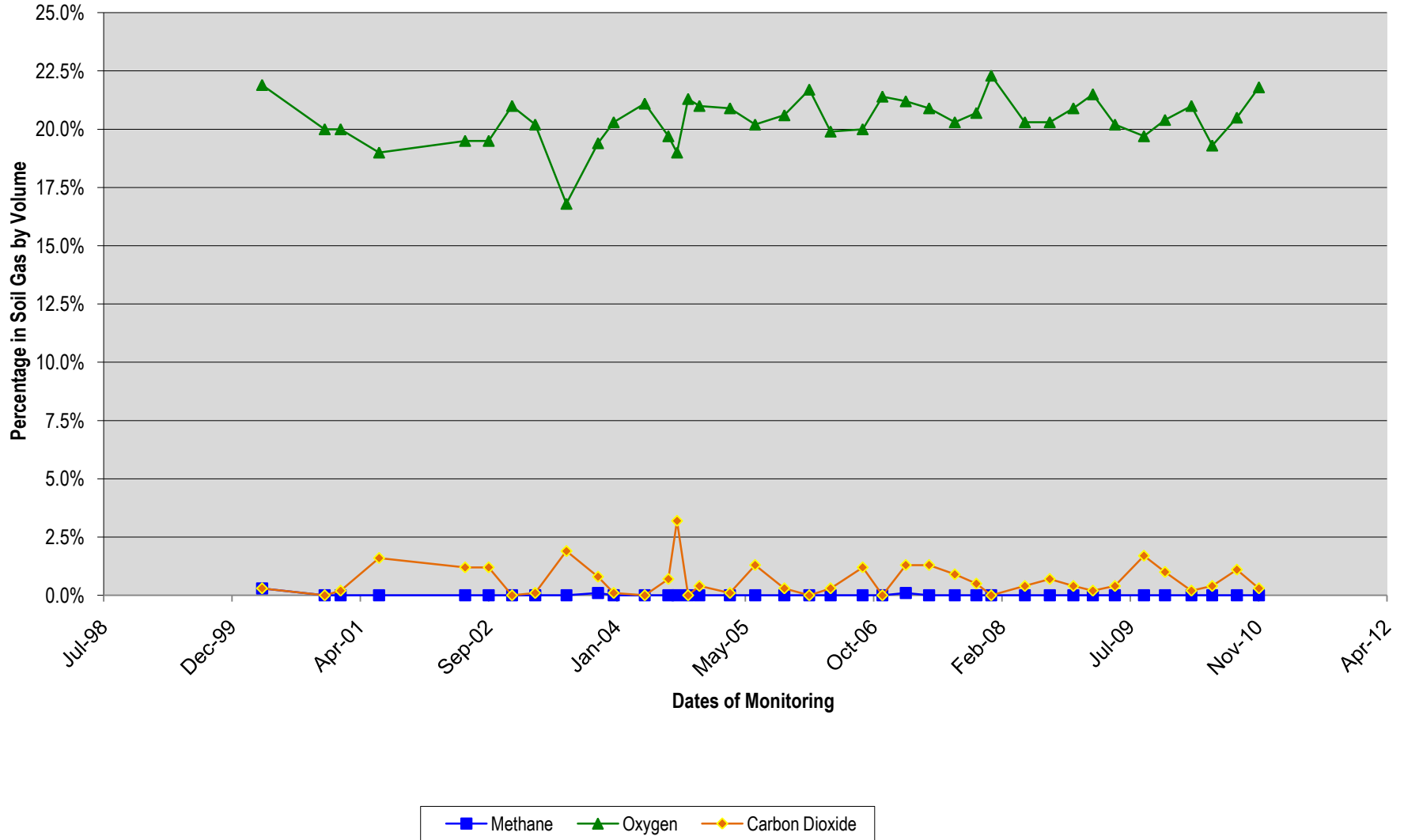
CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	
Tedlar Bags	2
Regulators	
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program? N
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet? N
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet? N
- 4. Was the job documented in the Air Lab Log-In Access Database? N/A

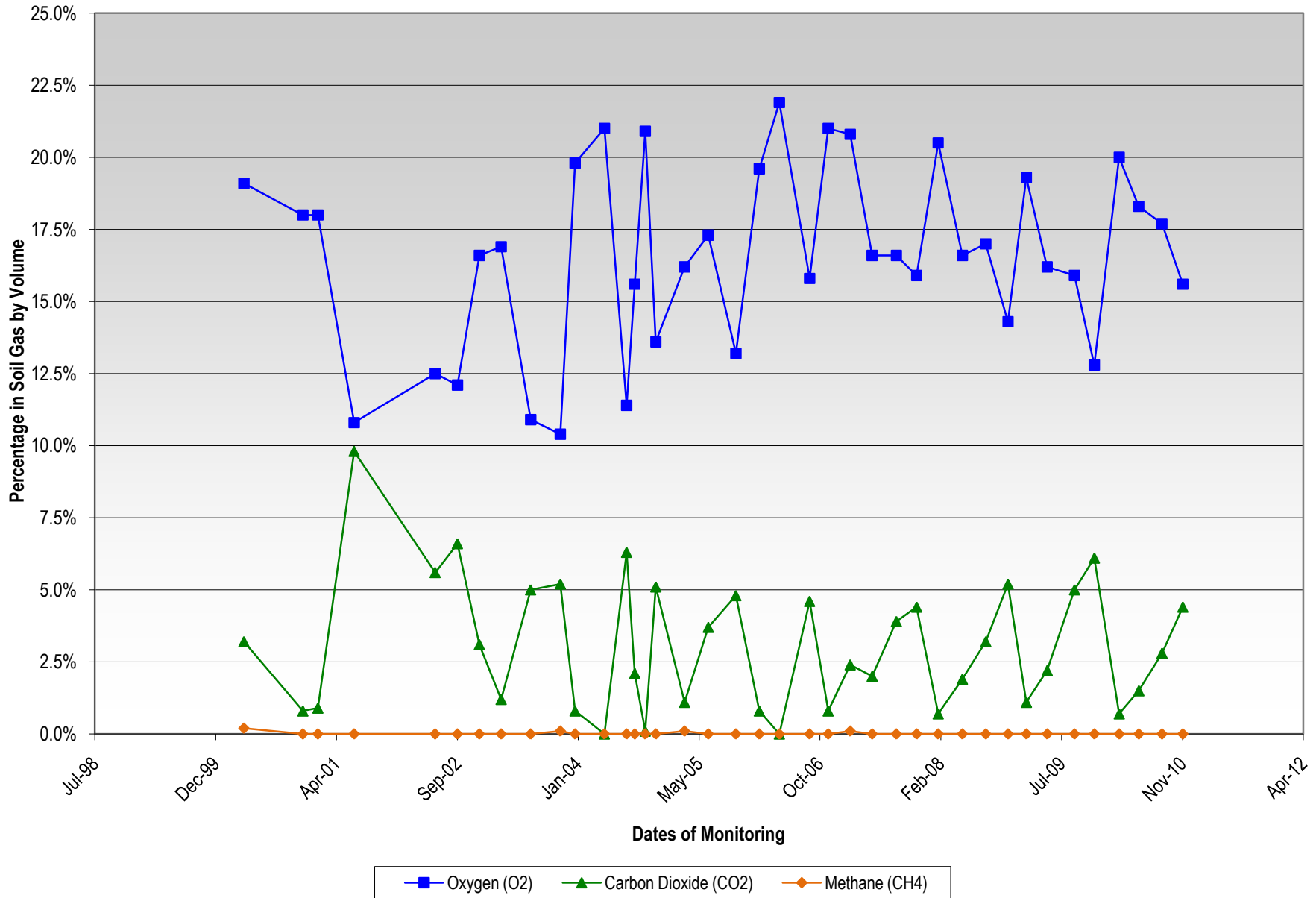
Laboratory comments: _____

Appendix C
Soil Gas Parameter Graphs

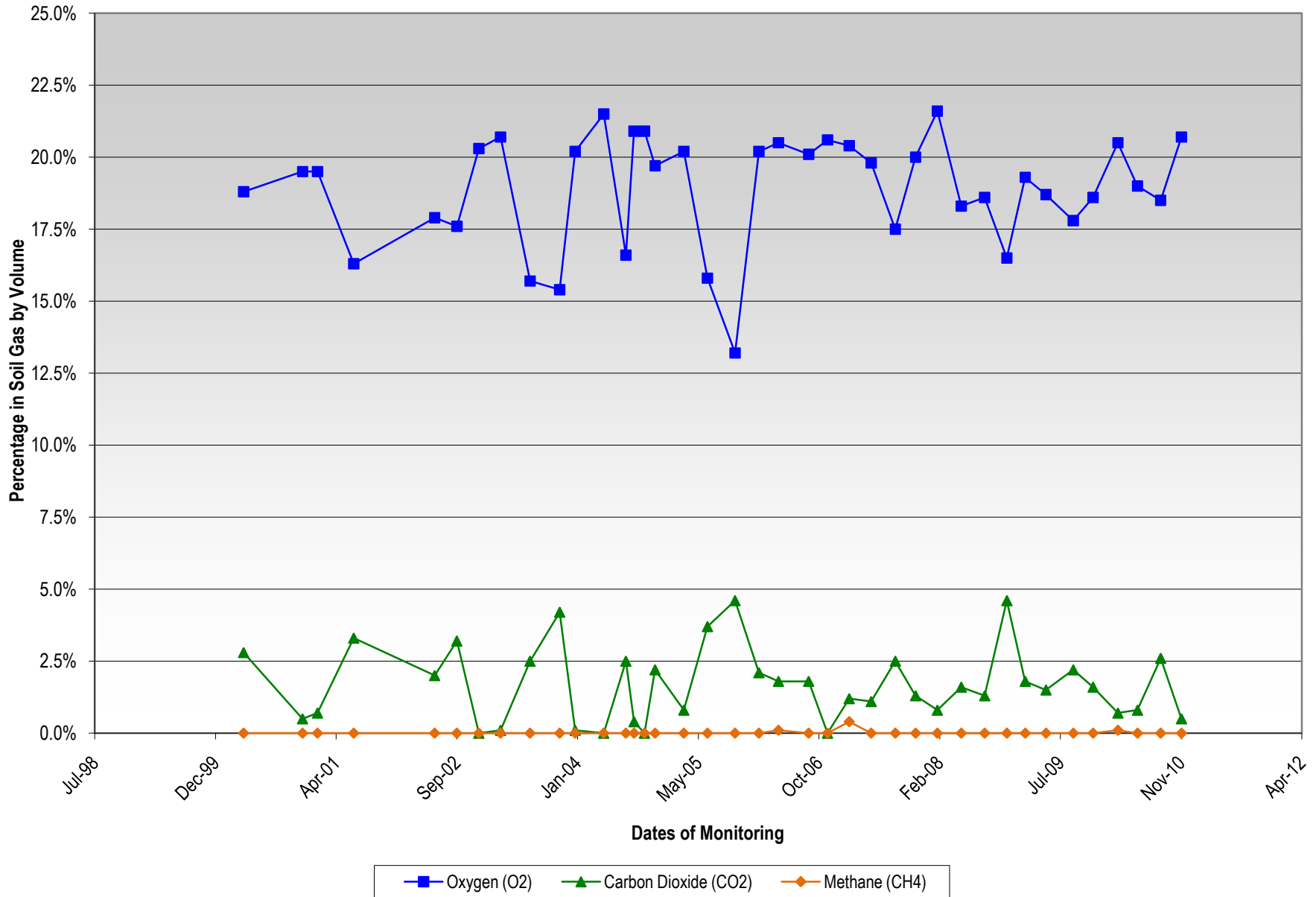
Soil Gas Well EPL1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



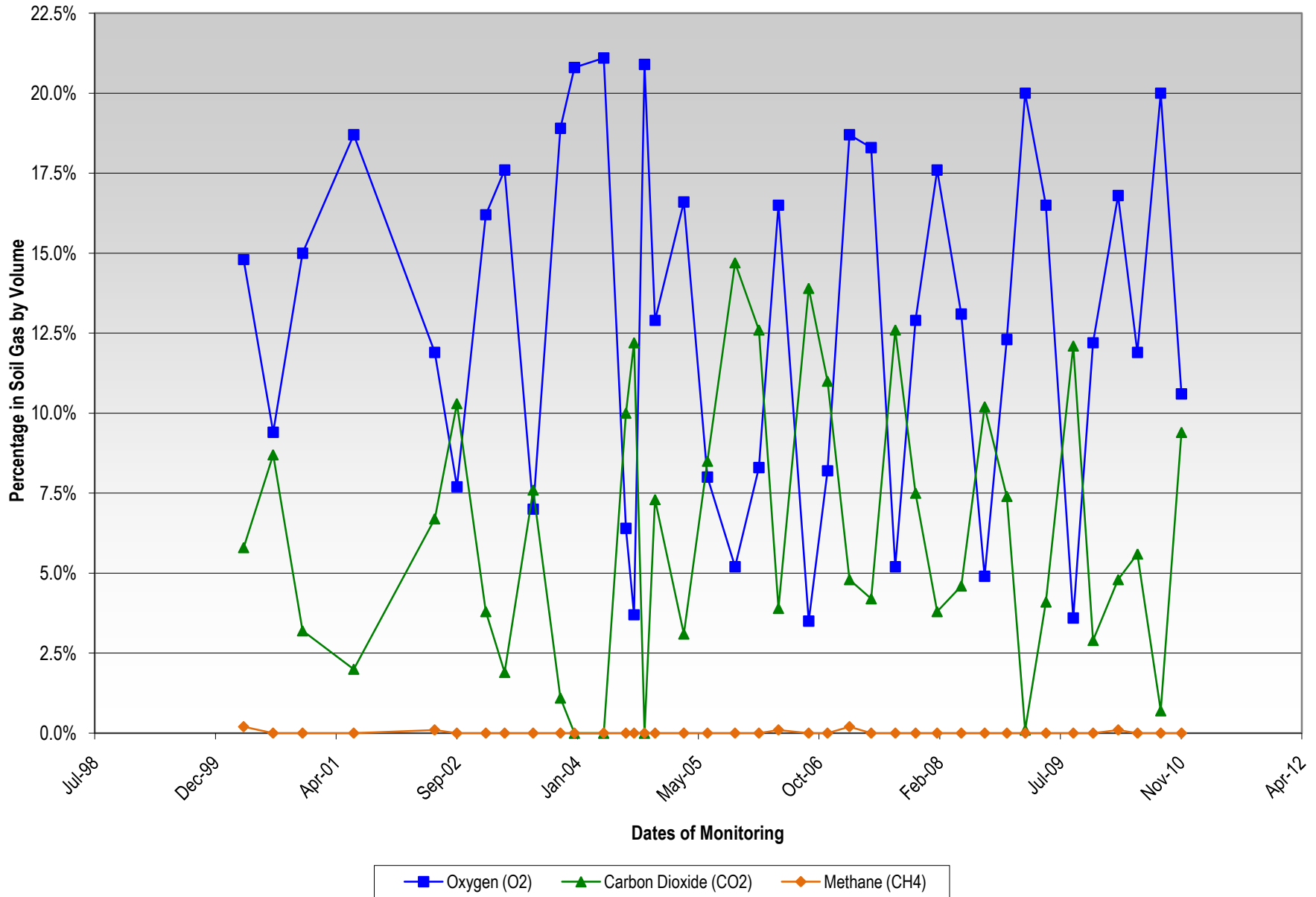
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



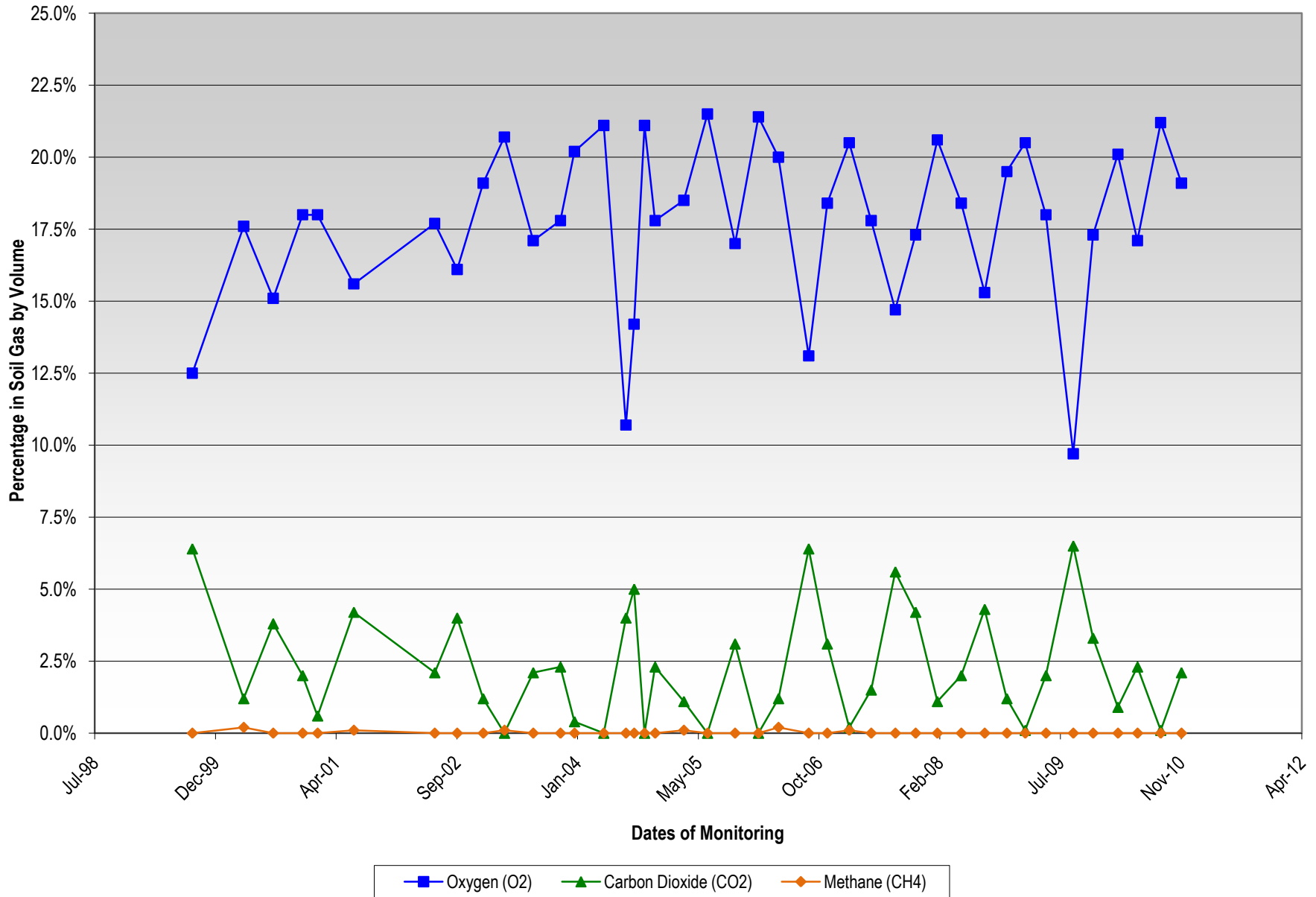
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



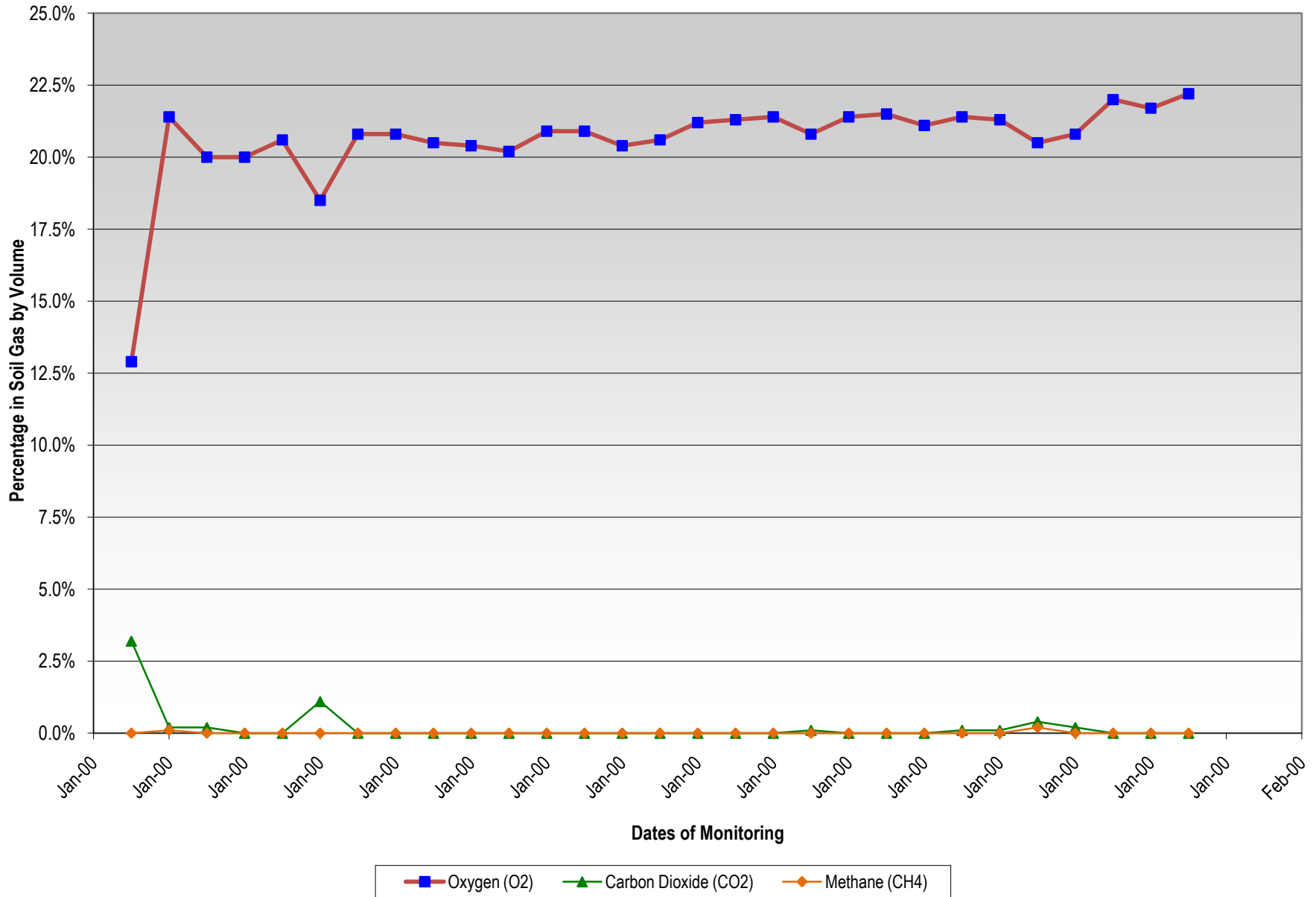
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



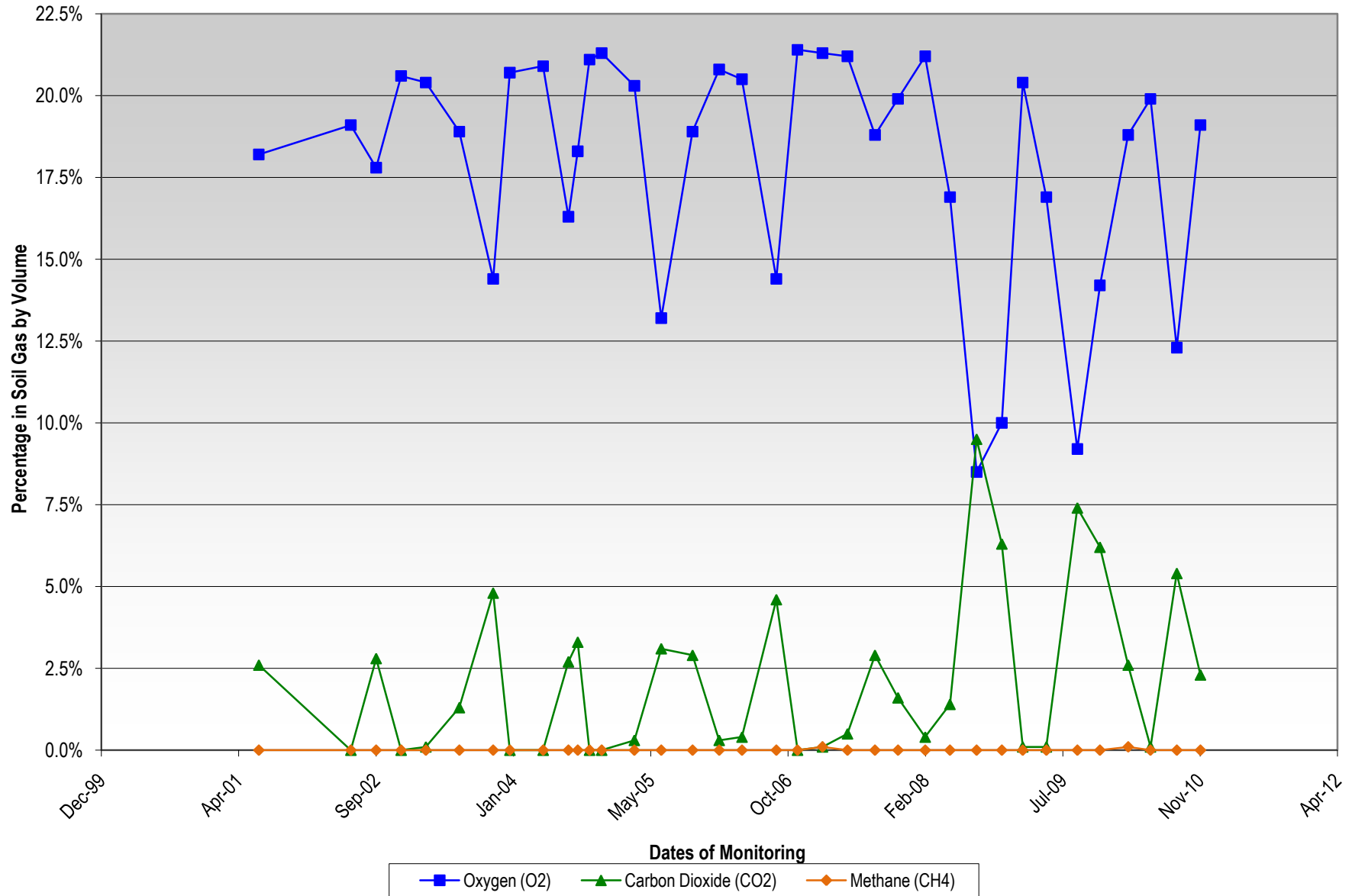
Soil Gas Well WB1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB7
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB15
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well MPL-7 Fluctuations in Methane, Oxygen and Carbon Dioxide

