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

SER-1

Subject:

September 2011 Quarterly Monitoring Report for Springfield Street School Complex

Date:

November 11, 2011

Dear Mr. Crawford:

Contact:

Donna H. Pallister, PE

ARCADIS US, Inc. (ARCADIS) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between September 28, 2011 and October 3, 2011. 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.

Phone:

401.738.3887

Email:

Donna.pallister@arcadis-us.com

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

Our ref:

WK012152.0007

COVER MONITORING

ARCADIS conducted a visual survey of the site on September 28, 2011 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.

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on September 28, 2011. The two elementary school blowers and the two middle school blowers 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 and a MiniRae 2000. Results of screening are provided on Table 1. Methane, carbon

Imagine the result

monoxide, hydrogen sulfide and organic vapors were not detected in any of the samples. Carbon dioxide was detected at a concentration of 0.0 to 0.5% at each location; five of the sample concentrations were greater than the RAWP Action Level of 1000 ppm (0.1%).

INDOOR AIR MONITORING

Indoor air monitoring was conducted on September 28, 2011 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.

The outside temperature on September 28, 2011 was 76 °F. Carbon dioxide was measured outside in the school parking lot at 480 ppm.

All readings were below the RAWP Action Levels. Methane, carbon monoxide, hydrogen sulfide, and organic vapors were not detected, and carbon dioxide was within the expected range for an occupied building.

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 September 28, 2011. 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.

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

The new and existing groundwater monitoring wells were sampled by ARCADIS on October 3, 2011.

Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from the 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 C. Results of analysis of groundwater samples are summarized in Table 3.

Chloroform was detected in the groundwater sample collected from MW-6 at a concentration equal to the laboratory detection limit of 2.0 ug/L. There is no RIDEM GB Groundwater Objective for chloroform. Trichloroethylene was detected in ATC-4 at 1.1 ug/L, significantly below the RIDEM GB Groundwater Objective of 540 ug/L. No other target analytes were detected in any of the groundwater samples.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 27 locations on October 3, 2011. 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, hydrogen sulfide and organic vapors were not detected in any samples. Carbon monoxide was detected in EPL-2 at 4 ppm. Carbon monoxide was not detected in any other wells.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.0% to 14.3% during the October monitoring event. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 24 readings exceeded the action level. The maximum concentration detected during the June round was 10.5%, and the maximum concentration of carbon dioxide detected during February was 6.5%. This is consistent with the pattern shown during previous rounds of declining carbon dioxide concentrations in the winter, and increasing concentrations in the summer and early fall. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for selected representative wells are presented in Attachment D.

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-6, located on the northern end of the property near Hartford Avenue. 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 C. 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 soil gas locations and subslab system monitoring points. 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.



Donna H. Pallister, PE, LSP
Senior Environmental Engineer

Copies:

C. Jones, Providence Schools
A. Sepe, City of Providence
Providence Public Building Authority










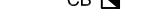

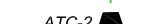


Figure

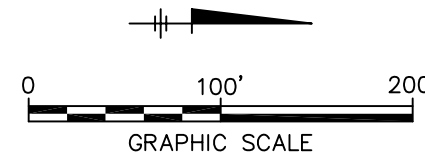
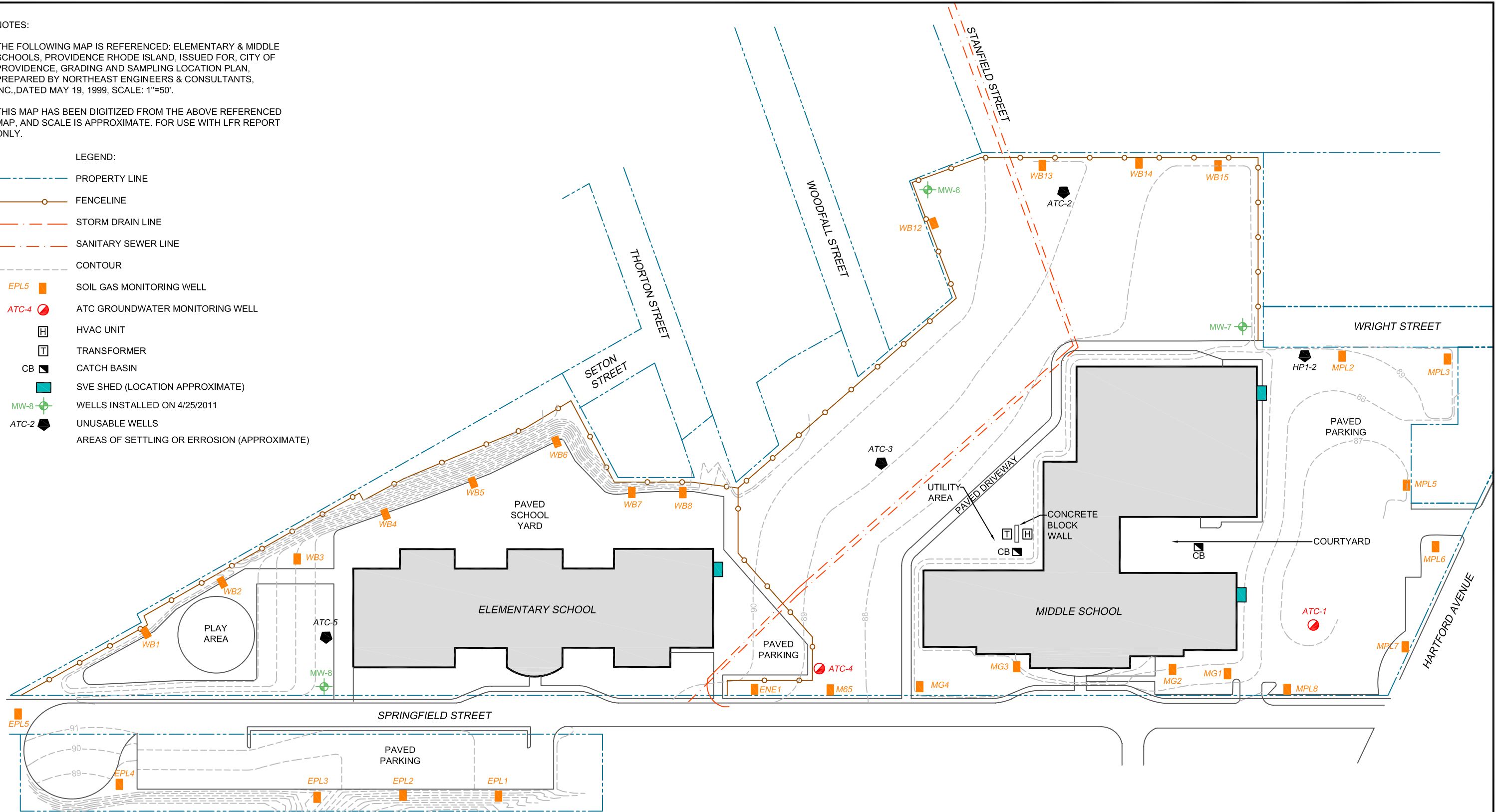
NOTES:


THE FOLLOWING MAP IS REFERENCED: ELEMENTARY & MIDDLE SCHOOLS, PROVIDENCE RHODE ISLAND, ISSUED FOR, CITY OF PROVIDENCE, GRADING AND SAMPLING LOCATION PLAN, PREPARED BY NORTHEAST 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
-  EPL5 SOIL GAS MONITORING WELL
-  ATC-4 ATC GROUNDWATER MONITORING WELL
-  HVAC UNIT
-  TRANSFORMER
-  CATCH BASIN
-  SVE SHED (LOCATION APPROXIMATE)
-  MW-8 WELLS INSTALLED ON 4/25/2011
-  ATC-2 UNUSABLE WELLS
-  AREAS OF SETTLING OR ERROSION (APPROXIMATE)



SPRINGFIELD STREET SCHOOL COMPLEX SPRINGFIELD STREET PROVIDENCE, RHODE ISLAND	
<h2 style="margin: 0;">SITE PLAN</h2>	
	FIGURE <h1 style="margin: 0;">2</h1>

CITY: MANCHESTER, CT DIV/GROUP: ENVCAD DR: B. SMALL PW: TM: PLOTTED: 7/28/2011 3:31 PM BY: SMALL, BRIAN
 G:\ENVCAD\Manchester\ACT\WK0121520007\0001\WK0121520007.dwg LAYOUT: 2 SAVER: 3/24/2011 12:37 PM ACADVER: 18.05 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ---

ARCADIS

Tables

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
September 28, 2011

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	20.3	0	0	0.0
Elementary School inlet 2	0.0	0.4	20.4	0	0	0.0
Elementary School Outlet	0.0	0.5	20.2	0	0	0.0
Middle School front shed inlet	0.0	0.0	20.7	0	0	0.0
Middle School front shed after 2 nd carbon	0.0	0.0	20.6	0	0	0.0
Middle School back shed inlet	0.0	0.3	20.2	0	0	0.0
Middle School back shed after 2 nd carbon	0.0	0.4	20.2	0	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Measurements made with: Land tec GEM2000, MiniRAE 2000, Q-RAE multigas meter

Sampling date: September 28, 2011

Measured by: D. Pallister

Table 2
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
September 28, 2011

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	532	21.4	0	0	0.0
E.S. Elevator	0	590	21.4	0	0	0.0
E.S. Faculty Work Room	0	708	21.4	0	0	0.0
E.S. Gym	0	674	21.4	0	0	0.0
E.S. Stairway B	0	575	21.4	0	0	0.0
E.S. Room 110	0	631	21.5	0	0	0.0
E.S. Library	0	725	21.4	0	0	0.0
E.S. Room 111 Music/Art Room	0	671	21.4	0	0	0.0
E.S. Cafeteria	0	826	21.4	0	0	0.0
E.S. GS-8	0	735	21.5	0	0	0.0
Stairway C	0	682	21.5	0	0	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
September 28, 2011

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	580	21.4	0	0	0.0
GS-14	0	442	21.3	0	0	0.0
M.S. Stairway near Hartford Ave. GS-07	0	500	21.4	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	398	21.3	0	0	0.0
M.S. Faculty Work Room	0	479	21.4	0	0	0.0
M.S. GS-03 Across from Boys Bathroom	0	440	21.4	0	0	0.0
M.S. Second Floor - Library	0	607	21.4	0	0	0.0
M.S. Cafeteria	0	410	21.3	0	0	0.0
Custodian Closet	0	400	21.4	0	0	0.0
Elevator	0	639	21.4	0	0	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
September 28, 2011

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	499	21.4	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	379	21.3	0	0	0.0
M.S. Near sensor GS 06 hallway right end	0	533	21.4	0	0	0.0
M.S. stairway near Elem. sensor GS-1	0	404	21.4	0	0	0.0
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: MiniRAE 2000, Q-RAE Multigas Meter, Fluke 975 Airmeter

PPM = Parts per million

Outdoor conditions: carbon monoxide = 0 ppm, carbon dioxide = 480 ppm,
temperature = 76 °F.

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
October 3, 2011

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	5.5	11.0	0	0	0.0
WB-2	0.0	1.4	19.6	0	0	0.0
WB-3	0.0	0.2	21.1	0	0	0.0
WB-4	0.0	0.0	21.2	0	0	0.0
WB-5	0.0	0.0	21.2	0	0	0.0
WB-6	0.0	0.0	21.2	0	0	0.0
WB-7	NM	NM	NM	NM	NM	NM
WB-8	0.0	0.0	21.1	0	0	0.0
WB-12	0.0	3.5	17.5	0	0	0.0
WB-13	0.0	2.1	14.9	0	0	0.0
WB-14	0.0	3.4	15.4	0	0	0.0
WB-15	0.0	8.0	8.3	0	0	0.0
EPL-1	0.0	1.3	19.1	0	0	0.0
EPL-2	0.0	1.6	17.7	4	0	0.0
EPL-3	0.0	6.6	12.2	0	0	0.0
EPL-4	0.0	2.5	16.6	0	0	0.0
EPL-5	0.0	5.7	11.7	0	0	0.0
ENE-1	0.0	3.9	14.1	0	0	0.0

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
October 3, 2011

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	2.4	13.7	0	0	0.0
MG2	0.0	4.5	15.2	0	0	0.0
MG3	0.0	3.8	15.6	0	0	0.0
MG4	0.0	3.5	15.6	0	0	0.0
MG5	0.0	2.3	16.8	0	0	0.0
MPL2	0.0	7.1	9.6	0	0	0.0
MPL3	0.0	11.4	0.7	0	0	0.0
MPL5	0.0	13.3	3.5	0	0	0.0
MPL6	0.0	14.3	2.9	0	0	0.0
MPL7	0.0	13.6	3.7	0	0	0.0
MPL8	0.0	8.4	10.5	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: Cloudy, 60F

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID

NM = Not measured. Well WB-7 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 PELs (PPBv)	Results of Analysis in parts per billion by volume (PPBv)																																							
		MPL-6															WB-2																								
		2/20/2007	5/17/2007	8/22/2007	11/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/10/2009	5/7/2009	8/25/2009	11/19/2009	3/11/2010	5/21/2010	8/25/2010	11/19/2010	2/24/2011	6/14/2011	10/3/2011	2/20/2007	5/17/2007	8/22/2007	11/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/26/2009	5/12/2009	8/25/2009	11/18/2009	3/1/2010	5/21/2010	8/25/2010	11/19/2010	2/24/2011	6/14/2011	10/3/2011		
Benzene	1,000	ND	0.36	0.74	ND	ND	0.51	1.0	0.3	0.31	0.31	2.40	0.29	0.18	0.52	0.37	0.25	ND	0.38	0.48	ND	0.29	ND	ND	ND	0.21	0.46	0.23	0.24	ND	2.1	0.39	0.16	0.22	0.30	0.18	ND	0.45	0.22		
Carbon Tetrachloride	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.062	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	75,000	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	ND	0.053	ND	0.073	ND	ND	ND	ND	ND	ND	ND	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	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	50,000	ND	3.2	0.48	ND	ND	0.25	ND	0.10	ND	ND	0.15	0.12	0.12	0.13	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	0.06	ND	ND	0.22	0.38	0.07	0.12	ND	0.15	ND	ND	0.59			
Chloromethane	100,000	ND	0.24	0.36	ND	ND	0.28	0.88	0.36	0.39	0.16	0.77	0.13	0.26	0.22	0.31	0.12	ND	0.50	0.22	ND	0.11	ND	ND	ND	0.2	0.56	0.23	0.54	ND	0.28	0.2	0.22	0.23	0.35	0.11	ND	0.34	0.25		
Dichlorodifluoromethane (Freon 12)	1,000,000	ND	ND	0.28	ND	ND	0.53	0.78	0.31	0.44	0.44	0.43	0.28	0.61	0.48	0.45	0.34	0.51 B	0.68	0.33	ND	0.5	0.57	0.66	0.57	0.49	0.66	0.4	0.51	0.55	0.57	0.44	0.66	0.49	0.60	0.44	0.51 B	0.48	0.63		
1,3-Dichlorobenzene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	1.70	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	0.74	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	75,000	ND	ND	0.54	ND	ND	ND	0.65	ND	0.13	ND	0.27	0.44	0.051	0.27	0.13	ND	0.23	ND	0.94	ND	0.16	0.37	ND	ND	ND	ND	0.15	ND	0.3	0.25	0.056	0.12	ND	ND	0.23	ND	0.84			
1,1-Dichloroethane	100,000	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethylene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cis-1,2-Dichloroethylene	200,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	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 (Freon 114)	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	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	100,000	ND	0.75	0.7	2.3	0.65	1.3	3.9	0.4	0.36	3.8	5.6	1.1	0.14	0.44	0.14	0.22	1.80	3.10	1.0	ND	0.55	0.46	3.2	0.78	0.41	1.3	0.33	0.42	2.0	4.6	0.6	0.16	0.37	0.10	0.23	1.8	2.5	0.94		
Methylene Chloride	100,000	ND	ND	0.84	3.5	2	2.6	3.8	2.9	1.7	2.2	1.9	1.5	1.7	3.2	2.7	1.4	1.7	2.6	2.8	ND	0.53	0.5	4.9	2.5	3.4	3.0	2.3	1.1	2.0	1.8	1.8	1.9	3.2	5.1	1.5	1.7	2.5	2.7		
Styrene	100,000	ND	1.6	1.5	1.4	ND	1.1	3.0	0.3	0.36	2.8	3.2	1.0	0.26	10	1.7	0.3	0.51	0.76	2.1	ND	1	1.1	0.69	ND	0.5	1.5	0.1	0.47	1.3	3.1	0.51	0.33	3.6	1.1	0.37	0.51	0.80	1.8		
Tetrachloroethylene	100,000	ND	0.19	0.27	4.6	1.9	0.99	4.1	0.6	0.33	0.65	4.0	0.76	0.19	0.21	0.47	0.25	0.34	6.00	1.1	ND	0.16	0.81	3.2	2.7	0.64	1.6	0.8	0.32	16	3.2	0.43	0.13	0.37	0.44	0.18	0.34	4.70	0.60		
Toluene	200,000	4.9	17	7.2	15	6.9	7.7	64	4	4.1	30	21	5	0.84	32	1.2	0.83	2.40	7.30	9.1	4.6	12	5.3	10	9.3	3	30	1.8	2.3	12	21	2.6	1.4	8.8	1.1	0.75	2.4	6.1	7.8		
1,1,1-Trichloroethane	350,000	ND	ND	0.36	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	0.19	0.24	ND	ND	ND	ND	ND	ND	38	ND	1.3	ND	ND	ND	ND	ND	ND	0.052	ND	ND	0.14	ND	ND	0.31	ND		
Trichloroethylene	100,000	ND	ND	0.25	0.53	1	4.1	3.6	1.7	ND	0.26	0.098	0.91	0.067	0.24	3.0	0.63	ND	0.78	1.2	ND	ND	4.6	ND	ND	3	2.8	0.97	0.32	ND	0.095	0.26	ND	0.37	0.70	0.15	ND	0.59	0.18		
Trichlorofluoromethane (Freon 11)	1,000,000	ND	ND	0.7	0.65	ND	0.27	1.3	0.5	0.28	0.72	0.96	0.60	0.44	6.0	0.82	0.44	0.31	0.94	2.4	ND	0.41	0.43	ND	ND	0.26	0.54	0.3	0.41	2.8	2	0.51	0.47	1.2	1.1	0.28	0.31	0.93	2.20		
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1,000,000	ND	ND	0.27	ND	ND	ND	0.06	ND	ND	0.06	0.083	0.069	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	ND	ND	0.06	0.11	0.076	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	None	ND	0.12	ND	ND	ND	0.28	3.7	0.1	ND	8.1	0.5	0.31	0.057	ND	ND	ND	ND	1.0	1.4	0.56	ND	ND	0.57	ND	ND	0.67	0.2	0.13	1.4	0.41	0.18	0.071	ND	ND	ND	1.0	1.3	0.47		
1,2,4-Trimethylbenzene	None	ND	ND	0.44	1.6	1.3	1.3	9.1	0.3	0.24	15	1.6	1.3	0.23	0.72	0.13	0.39	3.10	3.20	2.6	ND	1	0.26	1.7	1.1	0.66	1.6	0.66	0.52	3.2	1.2	0.9	0.28	0.62	0.10	0.38	3.1	3.3	2.0		
Vinyl chloride	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	100,000	1.4	3.1	2.4	5.3	2.2	3.7	11	1	0.95	11	15	3	0.41	1.2	0.42	0.59	5.10	8.40	4.0	1.2	2.5	1.8	10	2.6	1.3	3.7	0.94	1.4	6.1	13	1.5	0.52	0.93	0.32	0.59	5.1	7.0	3.5		
o-Xylene	100,000	ND	0.61	0.68	1.8	0.69	1.6	5.0	0.4	0.32	8.0	4.3	1.2	0.15	0.34	0.12	0.23	2.30	3.90	1.6	ND	0.56	0.48	3.5	0.8	0.64	1.5	0.43	0.45	2.3	3.3	0.6	0.18	0.26	ND	0.24	2.3	3.4	1.4		

Notes:
 ND = Not detected
 Only detected compounds are listed,
 see laboratory report for complete list
 on analytes.
 B = compound also detected in blank

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

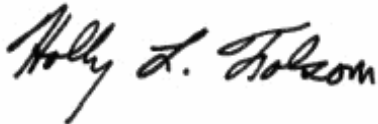
October 11, 2011

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

Project Location: Springfield Street
Client Job Number:
Project Number: WK012152.0007
Laboratory Work Order Number: 11J0111

Enclosed are results of analyses for samples received by the laboratory on October 4, 2011. 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 style with a large, prominent initial "H".

Holly L. Folsom
Project Manager

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

REPORT DATE: 10/11/2011

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0111

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

PROJECT LOCATION: Springfield Street

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MPL-6	11J0111-01	Air		EPA TO-14A	
WB-2	11J0111-02	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.

EPA TO-14A

Qualifications:

Holding times and stability of samples taken in tedlar bags have not been determined

Analyte & Samples(s) Qualified:

11J0111-01[MPL-6], 11J0111-02[WB-2]

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

Analyte & Samples(s) Qualified:

Carbon Tetrachloride, Chloroethane, Trichlorofluoromethane (Freon 11)

B038890-BS1, 11J0111-01[MPL-6], 11J0111-02[WB-2]

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

Analyte & Samples(s) Qualified:

Carbon Tetrachloride, Chloroethane, Trichlorofluoromethane (Freon 11)

B038890-BS1, 11J0111-01[MPL-6], 11J0111-02[WB-2]

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.



Michael A. Erickson
Laboratory Director

ANALYTICAL RESULTS

Project Location: Springfield Street
 Date Received: 10/4/2011
Field Sample #: MPL-6
Sample ID: 11J0111-01
 Sample Matrix: Air
 Sampled: 10/3/2011 13:20

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

Work Order: 11J0111
 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

Sample Flags: A-09

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analized		
Benzene	0.48	0.10		1.5	0.32	2	10/5/11	0:12	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/5/11	0:12	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/5/11	0:12	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/5/11	0:12	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/5/11	0:12	WSD
Chloroform	0.13	0.10		0.65	0.49	2	10/5/11	0:12	WSD
Chloromethane	0.22	0.10		0.45	0.21	2	10/5/11	0:12	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/5/11	0:12	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/5/11	0:12	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/5/11	0:12	WSD
1,4-Dichlorobenzene	0.94	0.10		5.7	0.60	2	10/5/11	0:12	WSD
Dichlorodifluoromethane (Freon 12)	0.33	0.10		1.6	0.49	2	10/5/11	0:12	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/5/11	0:12	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/5/11	0:12	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/5/11	0:12	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/5/11	0:12	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/5/11	0:12	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/5/11	0:12	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/5/11	0:12	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/5/11	0:12	WSD
Ethylbenzene	1.0	0.10		4.5	0.43	2	10/5/11	0:12	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/5/11	0:12	WSD
Methylene Chloride	2.8	1.0		9.7	3.5	2	10/5/11	0:12	WSD
Styrene	2.1	0.10		8.8	0.43	2	10/5/11	0:12	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/5/11	0:12	WSD
Tetrachloroethylene	1.1	0.10		7.2	0.68	2	10/5/11	0:12	WSD
Toluene	9.1	0.10		34	0.38	2	10/5/11	0:12	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/5/11	0:12	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/5/11	0:12	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/5/11	0:12	WSD
Trichloroethylene	1.2	0.10		6.2	0.54	2	10/5/11	0:12	WSD
Trichlorofluoromethane (Freon 11)	2.4	0.10	L-05, V-06	13	0.56	2	10/5/11	0:12	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/5/11	0:12	WSD
1,2,4-Trimethylbenzene	2.6	0.10		13	0.49	2	10/5/11	0:12	WSD
1,3,5-Trimethylbenzene	0.56	0.10		2.8	0.49	2	10/5/11	0:12	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/5/11	0:12	WSD
m&p-Xylene	4.0	0.20		17	0.87	2	10/5/11	0:12	WSD
o-Xylene	1.6	0.10		6.9	0.43	2	10/5/11	0:12	WSD

ANALYTICAL RESULTS

Project Location: Springfield Street
 Date Received: 10/4/2011
Field Sample #: MPL-6
Sample ID: 11J0111-01
 Sample Matrix: Air
 Sampled: 10/3/2011 13:20

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

Work Order: 11J0111
 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

Sample Flags: A-09

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)		94.5			70-130		10/5/11 0:12	

ANALYTICAL RESULTS

Project Location: Springfield Street
 Date Received: 10/4/2011
Field Sample #: WB-2
Sample ID: 11J0111-02
 Sample Matrix: Air
 Sampled: 10/3/2011 14:45

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

Work Order: 11J0111
 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

Sample Flags: A-09

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analized		
Benzene	0.22	0.10		0.70	0.32	2	10/5/11	0:51	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/5/11	0:51	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/5/11	0:51	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/5/11	0:51	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/5/11	0:51	WSD
Chloroform	0.59	0.10		2.9	0.49	2	10/5/11	0:51	WSD
Chloromethane	0.25	0.10		0.52	0.21	2	10/5/11	0:51	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/5/11	0:51	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/5/11	0:51	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/5/11	0:51	WSD
1,4-Dichlorobenzene	0.84	0.10		5.1	0.60	2	10/5/11	0:51	WSD
Dichlorodifluoromethane (Freon 12)	0.63	0.10		3.1	0.49	2	10/5/11	0:51	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/5/11	0:51	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/5/11	0:51	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/5/11	0:51	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/5/11	0:51	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/5/11	0:51	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/5/11	0:51	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/5/11	0:51	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/5/11	0:51	WSD
Ethylbenzene	0.94	0.10		4.1	0.43	2	10/5/11	0:51	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/5/11	0:51	WSD
Methylene Chloride	2.7	1.0		9.3	3.5	2	10/5/11	0:51	WSD
Styrene	1.8	0.10		7.5	0.43	2	10/5/11	0:51	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/5/11	0:51	WSD
Tetrachloroethylene	0.60	0.10		4.1	0.68	2	10/5/11	0:51	WSD
Toluene	7.8	0.10		29	0.38	2	10/5/11	0:51	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/5/11	0:51	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/5/11	0:51	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/5/11	0:51	WSD
Trichloroethylene	0.18	0.10		0.95	0.54	2	10/5/11	0:51	WSD
Trichlorofluoromethane (Freon 11)	2.2	0.10	L-05, V-06	13	0.56	2	10/5/11	0:51	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/5/11	0:51	WSD
1,2,4-Trimethylbenzene	2.0	0.10		9.9	0.49	2	10/5/11	0:51	WSD
1,3,5-Trimethylbenzene	0.47	0.10		2.3	0.49	2	10/5/11	0:51	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/5/11	0:51	WSD
m&p-Xylene	3.5	0.20		15	0.87	2	10/5/11	0:51	WSD
o-Xylene	1.4	0.10		6.0	0.43	2	10/5/11	0:51	WSD

ANALYTICAL RESULTS

Project Location: Springfield Street
 Date Received: 10/4/2011
Field Sample #: WB-2
Sample ID: 11J0111-02
 Sample Matrix: Air
 Sampled: 10/3/2011 14:45

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

Work Order: 11J0111
 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

Sample Flags: A-09

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)		93.4			70-130		10/5/11 0:51	

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
11J0111-01 [MPL-6]	B038890	1	1	N/A	1000	400	200	10/04/11
11J0111-02 [WB-2]	B038890	1	1	N/A	1000	400	200	10/04/11

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 B038890 - TO-15 Prep											
Blank (B038890-BLK1)											
						Prepared & Analyzed: 10/04/11					
Benzene	ND	0.025									
Bromomethane	ND	0.025									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
Ethylbenzene	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Methylene Chloride	ND	0.25									
Styrene	ND	0.025									
1,1,1,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	7.20				8.00		90.1	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 B038890 - TO-15 Prep											
LCS (B038890-BS1)											
						Prepared & Analyzed: 10/04/11					
Benzene	4.46				5.00		89.2	70-130			
Bromomethane	6.22				5.00		124	70-130			
Carbon Tetrachloride	6.63				5.00		133 *	70-130			L-05, V-06
Chlorobenzene	4.83				5.00		96.6	70-130			
Chloroethane	6.59				5.00		132 *	70-130			L-05, V-06
Chloroform	5.04				5.00		101	70-130			
Chloromethane	5.70				5.00		114	70-130			
1,2-Dibromoethane (EDB)	4.95				5.00		99.0	70-130			
1,2-Dichlorobenzene	5.13				5.00		103	70-130			
1,3-Dichlorobenzene	5.30				5.00		106	70-130			
1,4-Dichlorobenzene	5.20				5.00		104	70-130			
Dichlorodifluoromethane (Freon 12)	5.80				5.00		116	70-130			
1,1-Dichloroethane	4.76				5.00		95.2	70-130			
1,2-Dichloroethane	5.58				5.00		112	70-130			
1,1-Dichloroethylene	4.94				5.00		98.7	70-130			
cis-1,2-Dichloroethylene	4.84				5.00		96.8	70-130			
1,2-Dichloropropane	4.64				5.00		92.9	70-130			
cis-1,3-Dichloropropene	5.38				5.00		108	70-130			
trans-1,3-Dichloropropene	5.15				5.00		103	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.92				5.00		118	70-130			
Ethylbenzene	5.18				5.00		104	70-130			
Hexachlorobutadiene	5.88				5.00		118	70-130			
Methylene Chloride	5.00				5.00		100	70-130			
Styrene	5.18				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.70				5.00		93.9	70-130			
Tetrachloroethylene	5.08				5.00		102	70-130			
Toluene	4.99				5.00		99.8	70-130			
1,2,4-Trichlorobenzene	6.05				5.00		121	70-130			
1,1,1-Trichloroethane	5.64				5.00		113	70-130			
1,1,2-Trichloroethane	4.69				5.00		93.8	70-130			
Trichloroethylene	4.94				5.00		98.8	70-130			
Trichlorofluoromethane (Freon 11)	6.95				5.00		139 *	70-130			L-05, V-06
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.86				5.00		97.1	70-130			
1,2,4-Trimethylbenzene	5.42				5.00		108	70-130			
1,3,5-Trimethylbenzene	5.44				5.00		109	70-130			
Vinyl Chloride	5.92				5.00		118	70-130			
m&p-Xylene	10.9				10.0		109	70-130			
o-Xylene	5.29				5.00		106	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.64				8.00		95.4	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.
- A-09 Holding times and stability of samples taken in tedlar bags have not been determined
 - L-05 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



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 1 of 10

Company Name: ATCADIS

Address: 300 METRO CENTER BLDG

WATWICK RT 0388

Attention: DAVID PHILLIPS

Project Location: SPRINGFIELD ST

Sampled By: CHRIS JAMSON

Proposal Provided? (For Billing purposes) yes no

State Form Required? yes no

1150181

Telephone: (401) 738-3887

Project # W012152-0007

Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax # : _____

Email: down.phillips@acads.com

Format: EXCEL PDF GIS KEY

OTHER _____

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	Matrix Code	Conc. Code	ANALYSIS REQUESTED	# of containers
			Start Date/Time	Stop Date/Time						
MPL-6		01	10/6/11	5:20	X		A		2	
WB-2		02	10/6/11	11:45	X		A	10-14 LOC 8100	1	
ATC-1		03	10/6/11	16:30	X		GW		1	
MW-7		04	10/6/11	16:45	X		GW		1	
MW-6		05	10/6/11	17:00	X		GW		1	
ATC-4		06	10/6/11	17:15	X		GW		1	
MW-8		07	10/6/11	17:35	X		GW		1	
TRIP	BLANK		10/6/11						1	

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

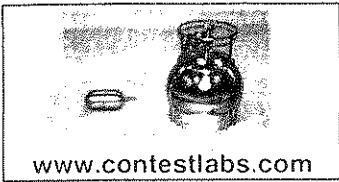
Turnaround **
 7-Day
 10-Day
 Other 5-D
 RUSH *

Detection Limit Requirements
 Regulations? RI

*Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:
 I = Iced
 H = HCL
 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.



39 Spruce St.
 East Longmeadow, MA.
 01028
 P: 413-525-2332
 F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: Accadis RECEIVED BY: SO DATE: 10/4/11

- 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) Are there any samples "On Hold"? Yes No, Stored where:
- 5) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

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

Air Media received at Con-Test

		# of Containers	Types (Size, Duration)
Air Sampling Media	Summa Cans		
	Tedlar Bags	2	1 Liter
	Tubes		
Flow Controllers	Regulators		
	Restrictors		
Extras	Tubing		
	Other		

Unused Summas:

Unused Regulators:

- 1) Was all media (used & unused checked into the WASP?
- 2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

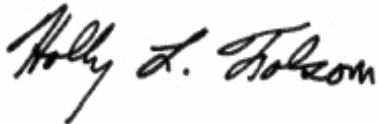
October 10, 2011

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: 11J0094

Enclosed are results of analyses for samples received by the laboratory on October 4, 2011. 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: 10/10/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: WK012152.0007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11J0094

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
ATC-1	11J0094-01	Ground Water		SW-846 8260C	
MW-7	11J0094-02	Ground Water		SW-846 8260C	
MW-6	11J0094-03	Ground Water		SW-846 8260C	
ATC-4	11J0094-04	Ground Water		SW-846 8260C	
MW-8	11J0094-05	Ground Water		SW-846 8260C	
TRIP BLANK	11J0094-06	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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:

Carbon Disulfide, Dichlorodifluoromethane (Freon 12)

B038567-BSD1

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane, Dichlorodifluoromethane (Freon 12), trans-1,3-Dichloropropene

11J0094-01[ATC-1], 11J0094-02[MW-7], 11J0094-03[MW-6], 11J0094-04[ATC-4], 11J0094-05[MW-8], 11J0094-06[TRIP BLANK], B038567-BLK1, B038567-BS1, B038567-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

11J0094-01[ATC-1], 11J0094-02[MW-7], 11J0094-03[MW-6], 11J0094-04[ATC-4], 11J0094-05[MW-8], 11J0094-06[TRIP BLANK], B038567-BLK1, B038567-BS1, B038567-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.



Michael A. Erickson
Laboratory Director

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: ATC-1

Sampled: 10/3/2011 16:30

Sample ID: 11J0094-01

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 8260C	10/5/11	10/6/11 0:50	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 0:50	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: ATC-1

Sampled: 10/3/2011 16:30

Sample ID: 11J0094-01

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 8260C	10/5/11	10/6/11 0:50	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 0:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	91.6	70-130	10/6/11 0:50
Toluene-d8	97.4	70-130	10/6/11 0:50
4-Bromofluorobenzene	94.4	70-130	10/6/11 0:50

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-7

Sampled: 10/3/2011 16:45

Sample ID: 11J0094-02

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 8260C	10/5/11	10/6/11 1:21	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:21	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-7

Sampled: 10/3/2011 16:45

Sample ID: 11J0094-02

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 8260C	10/5/11	10/6/11 1:21	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.4	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	94.2	70-130	

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-6

Sampled: 10/3/2011 17:00

Sample ID: 11J0094-03

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 8260C	10/5/11	10/6/11 1:53	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Chloroform	2.0	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 1:53	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-6

Sampled: 10/3/2011 17:00

Sample ID: 11J0094-03

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 8260C	10/5/11	10/6/11 1:53	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 1:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.3	70-130	
Toluene-d8	98.0	70-130	
4-Bromofluorobenzene	95.2	70-130	

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: ATC-4

Sampled: 10/3/2011 17:15

Sample ID: 11J0094-04

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 8260C	10/5/11	10/6/11 2:25	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:25	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: ATC-4

Sampled: 10/3/2011 17:15

Sample ID: 11J0094-04

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 8260C	10/5/11	10/6/11 2:25	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Trichloroethylene	1.1	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.5	70-130	
Toluene-d8	98.9	70-130	
4-Bromofluorobenzene	94.3	70-130	

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-8

Sampled: 10/3/2011 17:36

Sample ID: 11J0094-05

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 8260C	10/5/11	10/6/11 2:56	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/6/11 2:56	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: MW-8

Sampled: 10/3/2011 17:36

Sample ID: 11J0094-05

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 8260C	10/5/11	10/6/11 2:56	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/6/11 2:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.3	70-130	
Toluene-d8	99.4	70-130	
4-Bromofluorobenzene	94.2	70-130	

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: TRIP BLANK

Sampled: 10/3/2011 00:00

Sample ID: 11J0094-06

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 8260C	10/5/11	10/5/11 22:10	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/5/11	10/5/11 22:10	MFF

Project Location: Springfield St.

Sample Description:

Work Order: 11J0094

Date Received: 10/4/2011

Field Sample #: TRIP BLANK

Sampled: 10/3/2011 00:00

Sample ID: 11J0094-06

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 8260C	10/5/11	10/5/11 22:10	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/5/11	10/5/11 22:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.6	70-130	10/5/11 22:10
Toluene-d8	99.0	70-130	10/5/11 22:10
4-Bromofluorobenzene	95.1	70-130	10/5/11 22:10

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11J0094-01 [ATC-1]	B038567	5	5.00	10/05/11
11J0094-02 [MW-7]	B038567	5	5.00	10/05/11
11J0094-03 [MW-6]	B038567	5	5.00	10/05/11
11J0094-04 [ATC-4]	B038567	5	5.00	10/05/11
11J0094-05 [MW-8]	B038567	5	5.00	10/05/11
11J0094-06 [TRIP BLANK]	B038567	5	5.00	10/05/11

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 B038567 - SW-846 5030B

Blank (B038567-BLK1)

Prepared & Analyzed: 10/05/11

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							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
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	10	µg/L							
Carbon Tetrachloride	ND	5.0	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							V-05
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							V-05
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							V-05
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 B038567 - SW-846 5030B

Blank (B038567-BLK1)

Prepared & Analyzed: 10/05/11

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	23.5		µg/L	25.0		93.9	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.5	70-130			

LCS (B038567-BS1)

Prepared & Analyzed: 10/05/11

Acetone	129	50	µg/L	100		129	70-160			†
Acrylonitrile	9.68	5.0	µg/L	10.0		96.8	70-130			
tert-Amyl Methyl Ether (TAME)	8.61	0.50	µg/L	10.0		86.1	70-130			
Benzene	10.5	1.0	µg/L	10.0		105	70-130			
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130			
Bromodichloromethane	8.86	0.50	µg/L	10.0		88.6	70-130			
Bromoform	8.89	1.0	µg/L	10.0		88.9	70-130			
Bromomethane	6.39	2.0	µg/L	10.0		63.9	40-160			†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	81.0	20	µg/L	100		81.0	40-160			†
n-Butylbenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.23	0.50	µg/L	10.0		82.3	70-130			
Carbon Disulfide	8.25	10	µg/L	10.0		82.5	70-130			
Carbon Tetrachloride	8.93	5.0	µg/L	10.0		89.3	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
Chlorodibromomethane	8.87	0.50	µg/L	10.0		88.7	70-130			
Chloroethane	9.10	2.0	µg/L	10.0		91.0	70-130			
Chloroform	12.3	2.0	µg/L	10.0		123	70-130			
Chloromethane	6.81	2.0	µg/L	10.0		68.1	40-160			†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	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 B038567 - SW-846 5030B										
LCS (B038567-BS1)										
Prepared & Analyzed: 10/05/11										
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.20	5.0	µg/L	10.0		82.0	70-130			
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130			
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	7.94	2.0	µg/L	10.0		79.4	70-130			
Dichlorodifluoromethane (Freon 12)	4.36	2.0	µg/L	10.0		43.6	40-160			V-05 †
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
trans-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130			
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130			
2,2-Dichloropropane	7.40	1.0	µg/L	10.0		74.0	40-130			V-05 †
1,1-Dichloropropene	9.99	2.0	µg/L	10.0		99.9	70-130			
cis-1,3-Dichloropropene	8.57	0.50	µg/L	10.0		85.7	70-130			
trans-1,3-Dichloropropene	8.66	0.50	µg/L	10.0		86.6	70-130			V-05
Diethyl Ether	10.9	2.0	µg/L	10.0		109	70-130			
Diisopropyl Ether (DIPE)	9.86	0.50	µg/L	10.0		98.6	70-130			
1,4-Dioxane	116	50	µg/L	100		116	40-130			V-16 †
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Hexachlorobutadiene	10.2	0.50	µg/L	10.0		102	70-130			
2-Hexanone (MBK)	95.9	10	µg/L	100		95.9	70-160			†
Isopropylbenzene (Cumene)	12.5	1.0	µg/L	10.0		125	70-130			
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130			
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130			
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130			
4-Methyl-2-pentanone (MIBK)	96.2	10	µg/L	100		96.2	70-160			†
Naphthalene	10.3	2.0	µg/L	10.0		103	40-130			†
n-Propylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Styrene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
Tetrahydrofuran	7.66	10	µg/L	10.0		76.6	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3,5-Trichlorobenzene	9.22	1.0	µg/L	10.0		92.2	70-130			
1,1,1-Trichloroethane	9.28	1.0	µg/L	10.0		92.8	70-130			
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Trichlorofluoromethane (Freon 11)	9.42	2.0	µg/L	10.0		94.2	70-130			
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130			
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Vinyl Chloride	6.45	2.0	µg/L	10.0		64.5	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
Batch B038567 - SW-846 5030B										
LCS (B038567-BS1)										
Prepared & Analyzed: 10/05/11										
m+p Xylene	22.1	2.0	µg/L	20.0		111	70-130			
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.5		µg/L	25.0		89.8	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.8	70-130			
LCS Dup (B038567-BSD1)										
Prepared & Analyzed: 10/05/11										
Acetone	134	50	µg/L	100		134	70-160	3.74	25	†
Acrylonitrile	9.94	5.0	µg/L	10.0		99.4	70-130	2.65	25	
tert-Amyl Methyl Ether (TAME)	8.44	0.50	µg/L	10.0		84.4	70-130	1.99	25	
Benzene	9.99	1.0	µg/L	10.0		99.9	70-130	5.26	25	
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.34	25	
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130	4.85	25	
Bromodichloromethane	8.34	0.50	µg/L	10.0		83.4	70-130	6.05	25	
Bromoform	9.07	1.0	µg/L	10.0		90.7	70-130	2.00	25	
Bromomethane	6.41	2.0	µg/L	10.0		64.1	40-160	0.312	25	†
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	5.71	25	†
tert-Butyl Alcohol (TBA)	94.6	20	µg/L	100		94.6	40-160	15.5	25	†
n-Butylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	2.60	25	
sec-Butylbenzene	9.70	1.0	µg/L	10.0		97.0	70-130	4.93	25	
tert-Butylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130	3.78	25	
tert-Butyl Ethyl Ether (TBEE)	7.96	0.50	µg/L	10.0		79.6	70-130	3.34	25	
Carbon Disulfide	6.77	10	µg/L	10.0		67.7 *	70-130	19.7	25	L-07
Carbon Tetrachloride	8.26	5.0	µg/L	10.0		82.6	70-130	7.80	25	
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	5.44	25	
Chlorodibromomethane	8.65	0.50	µg/L	10.0		86.5	70-130	2.51	25	
Chloroethane	7.99	2.0	µg/L	10.0		79.9	70-130	13.0	25	
Chloroform	11.5	2.0	µg/L	10.0		115	70-130	7.13	25	
Chloromethane	6.18	2.0	µg/L	10.0		61.8	40-160	9.70	25	†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	5.96	25	
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	3.02	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.92	5.0	µg/L	10.0		89.2	70-130	8.41	25	
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130	0.527	25	
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130	0.645	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.89	25	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	4.16	25	
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.92	25	
trans-1,4-Dichloro-2-butene	8.32	2.0	µg/L	10.0		83.2	70-130	4.67	25	
Dichlorodifluoromethane (Freon 12)	3.59	2.0	µg/L	10.0		35.9 *	40-160	19.4	25	L-07, V-05 †
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	5.36	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	1.39	25	
1,1-Dichloroethylene	9.46	1.0	µg/L	10.0		94.6	70-130	7.63	25	
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	6.17	25	
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	7.34	25	
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130	2.65	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	1.23	25	
2,2-Dichloropropane	7.00	1.0	µg/L	10.0		70.0	40-130	5.56	25	V-05 †
1,1-Dichloropropene	9.75	2.0	µg/L	10.0		97.5	70-130	2.43	25	
cis-1,3-Dichloropropene	8.32	0.50	µg/L	10.0		83.2	70-130	2.96	25	
trans-1,3-Dichloropropene	8.54	0.50	µg/L	10.0		85.4	70-130	1.40	25	V-05
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	6.42	25	
Diisopropyl Ether (DIPE)	9.06	0.50	µg/L	10.0		90.6	70-130	8.46	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
Batch B038567 - SW-846 5030B										
LCS Dup (B038567-BSD1)										
Prepared & Analyzed: 10/05/11										
1,4-Dioxane	119	50	µg/L	100		119	40-130	1.80	50	V-16 † ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	5.24	25	
Hexachlorobutadiene	9.92	0.50	µg/L	10.0		99.2	70-130	3.17	25	
2-Hexanone (MBK)	103	10	µg/L	100		103	70-160	7.00	25	†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130	6.01	25	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130	2.31	25	
Methyl tert-Butyl Ether (MTBE)	9.97	1.0	µg/L	10.0		99.7	70-130	1.89	25	
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130	5.57	25	
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160	6.06	25	†
Naphthalene	11.7	2.0	µg/L	10.0		117	40-130	12.8	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	5.06	25	
Styrene	10.8	1.0	µg/L	10.0		108	70-130	4.36	25	
1,1,1,2-Tetrachloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	2.49	25	
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.0		110	70-130	1.74	25	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	5.56	25	
Tetrahydrofuran	8.04	10	µg/L	10.0		80.4	70-130	4.84	25	
Toluene	10.2	1.0	µg/L	10.0		102	70-130	4.53	25	
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.0		115	70-130	7.41	25	
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.62	25	
1,3,5-Trichlorobenzene	9.18	1.0	µg/L	10.0		91.8	70-130	0.435	25	
1,1,1-Trichloroethane	9.06	1.0	µg/L	10.0		90.6	70-130	2.40	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	1.43	25	
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	4.88	25	
Trichlorofluoromethane (Freon 11)	8.61	2.0	µg/L	10.0		86.1	70-130	8.99	25	
1,2,3-Trichloropropane	11.2	2.0	µg/L	10.0		112	70-130	10.9	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.46	1.0	µg/L	10.0		94.6	70-130	7.53	25	
1,2,4-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	4.24	25	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	5.20	25	
Vinyl Chloride	5.82	2.0	µg/L	10.0		58.2	40-160	10.3	25	†
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130	3.83	25	
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130	5.71	25	
Surrogate: 1,2-Dichloroethane-d4	22.4		µg/L	25.0		89.4	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.2	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-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. Increased 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME,RI
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
tert-Butyl Alcohol (TBA)	NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,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	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

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

Company Name: ATC ADIS

Address: 300 METRO CENTER BLDG

WATUWICK RT 03886

Attention: Donna Phillips

Project Location: SPRINGFIELD ST

Sampled By: CHRIS JAMSON

Proposal Provided? (For Billing purposes) yes no

State Form Required? yes no

1150094

Telephone: (401) 738-3887

Project # W01715T.0007

Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____

Email: donna.phillips@awade-ly.com

Format: EXCEL PDF GIS KEY

OTHER

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp-osite	Grab	Matrix Conc. Code	Matrix Conc. Code	Analysis Requested	Cont. Code	Preservation Codes
MPL-6			10/03/11	15:20				A				
WB-2			10/03/11	14:45				A				
ATC-1		01	10/03/11	16:30				GW				
MW-7		02	10/03/11	16:45				GW				
MW-6		03	10/03/11	17:00				GW				
ATC-4		04	10/03/11	17:15				GW				
MW-8		05	10/03/11	17:30				GW				
TRIP	BLANK	06	10/03/11									

Laboratory Comments: _____

Revised by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Requisitioned by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Turnaround Time: 7-Day 10-Day Other: 5DP

** 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.

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Arcadis RECEIVED BY: SD DATE: 10/4/11

- 1) Was the chain(s) of custody relinquished and signed? **Yes** No No CoC Included
 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 _____ Temperature °C by Temp gun 3.6

5) Are there Dissolved samples for the lab to filter? Yes **No**

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes **No**

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19
 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		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>16</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

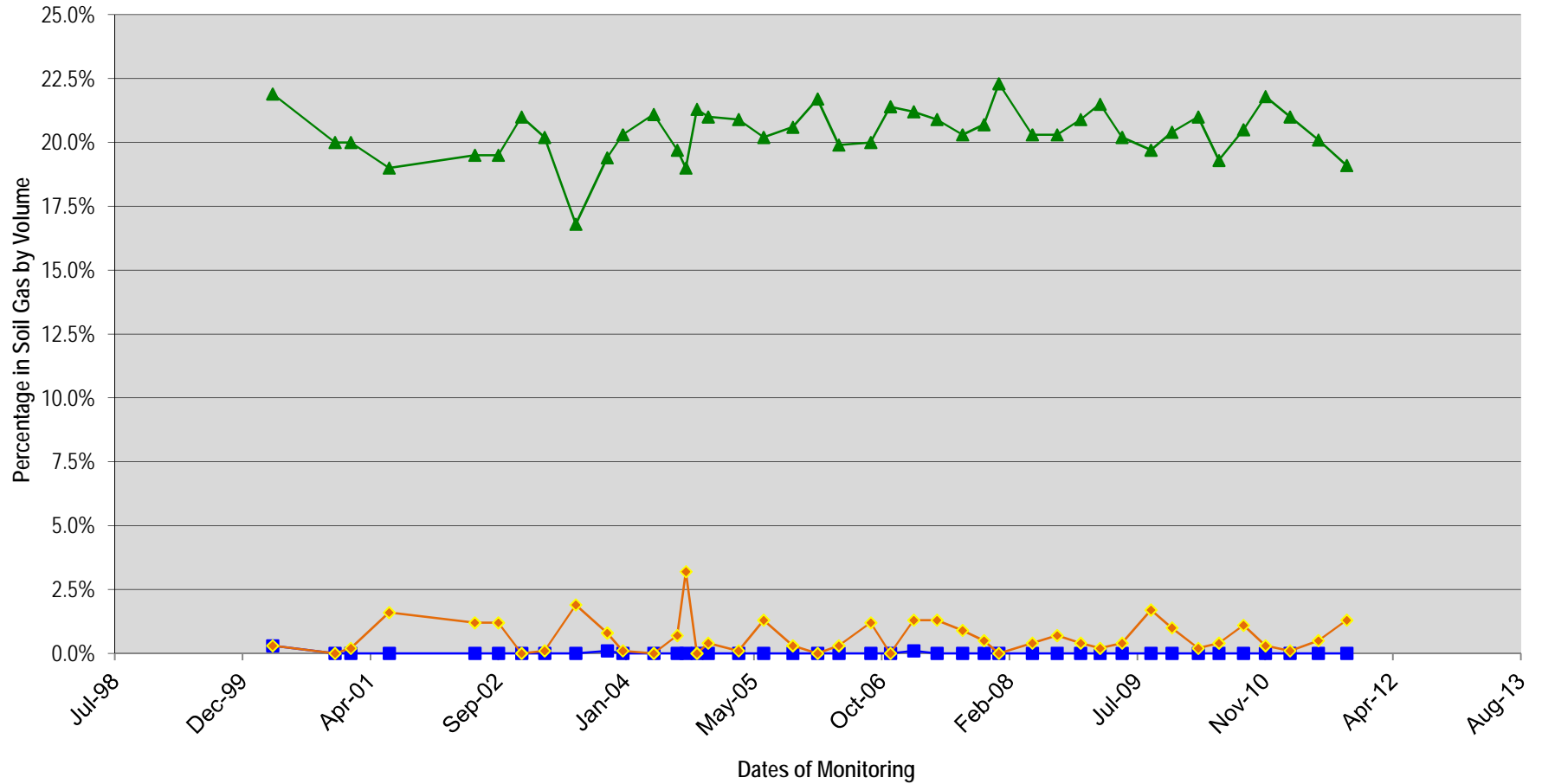
40 mL vials: # HCl 16 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

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**

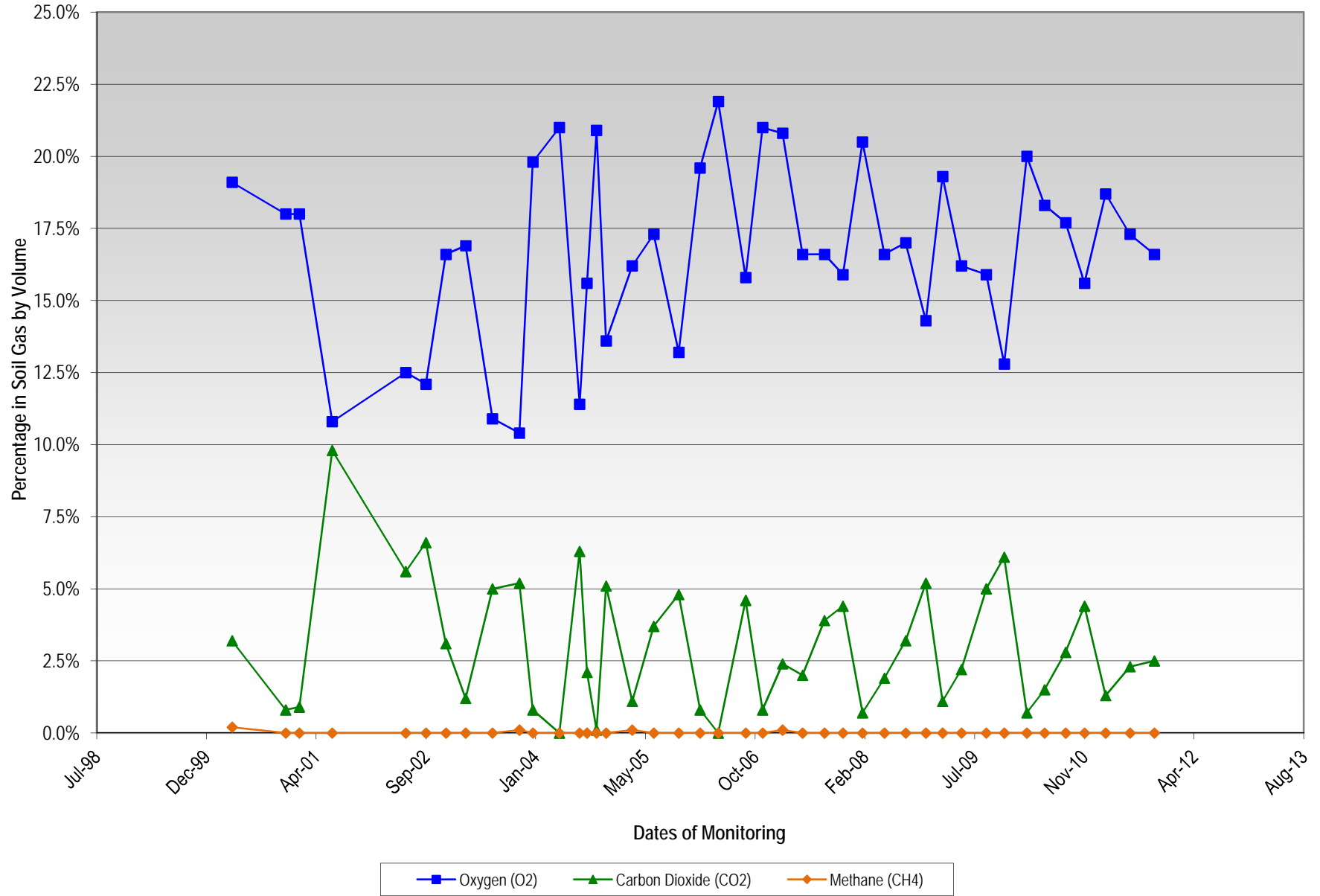
Appendix C
Soil Gas Parameter Graphs

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

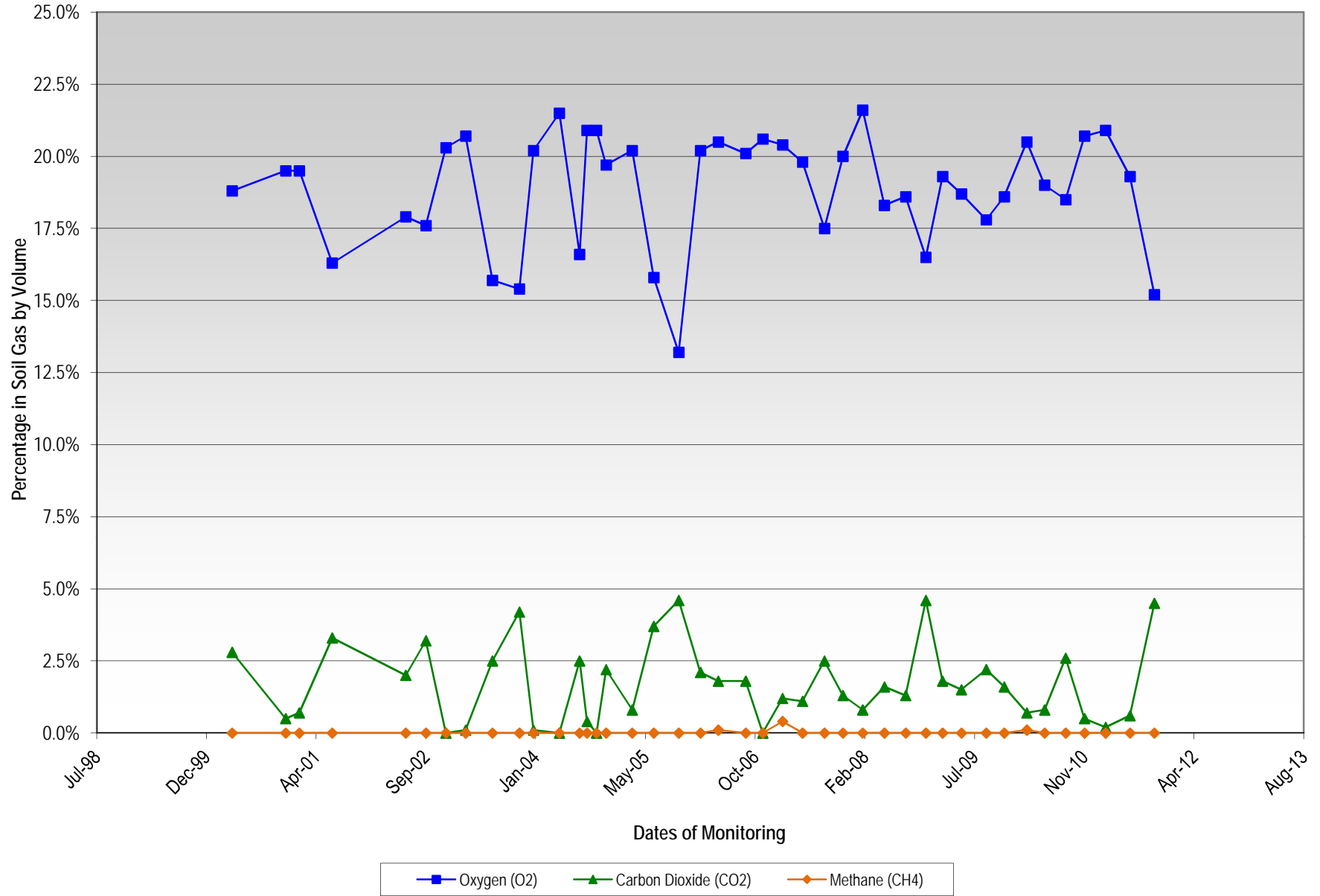


—■— Methane —▲— Oxygen —◆— Carbon Dioxide

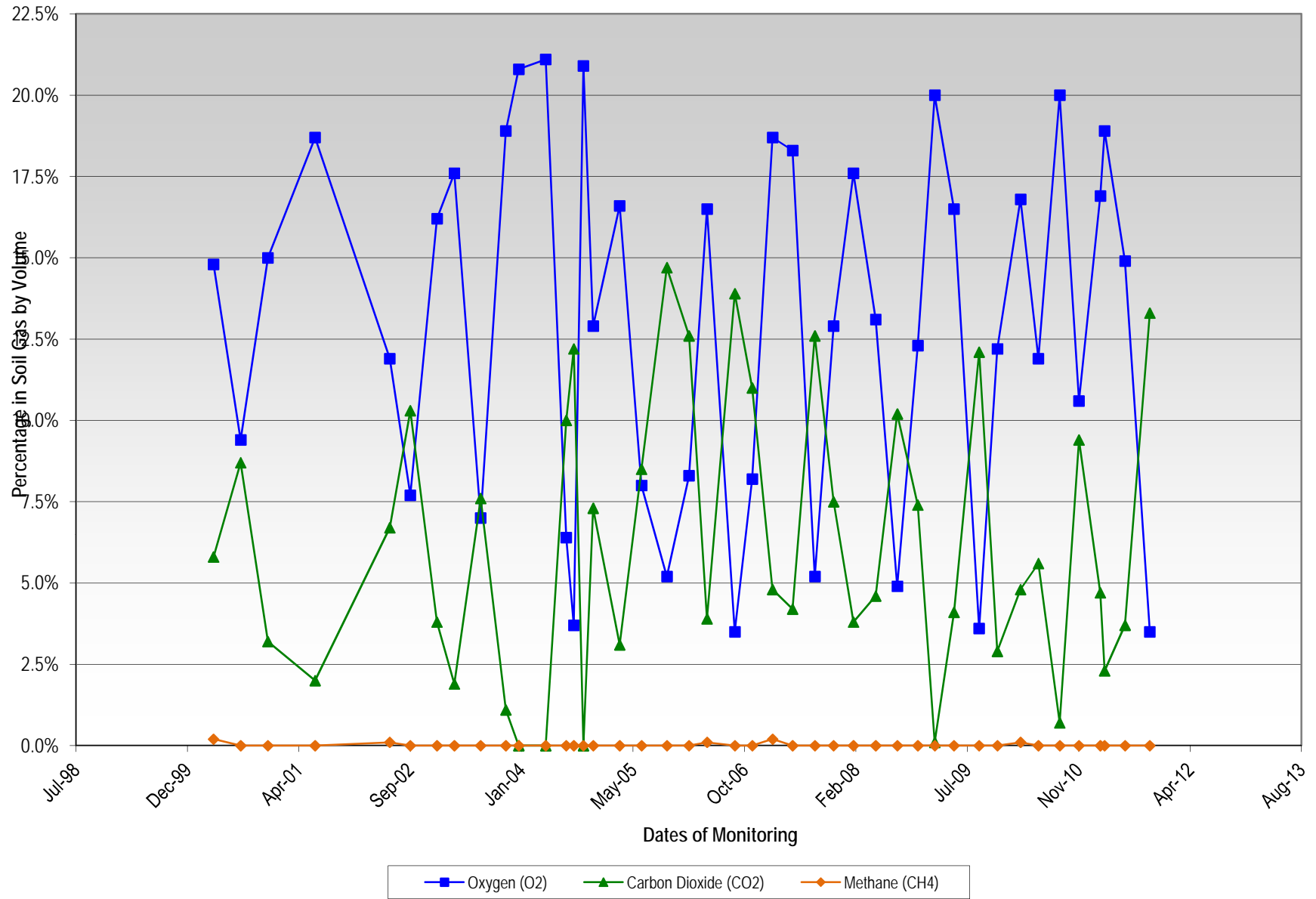
Soil Gas Well EPL4
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



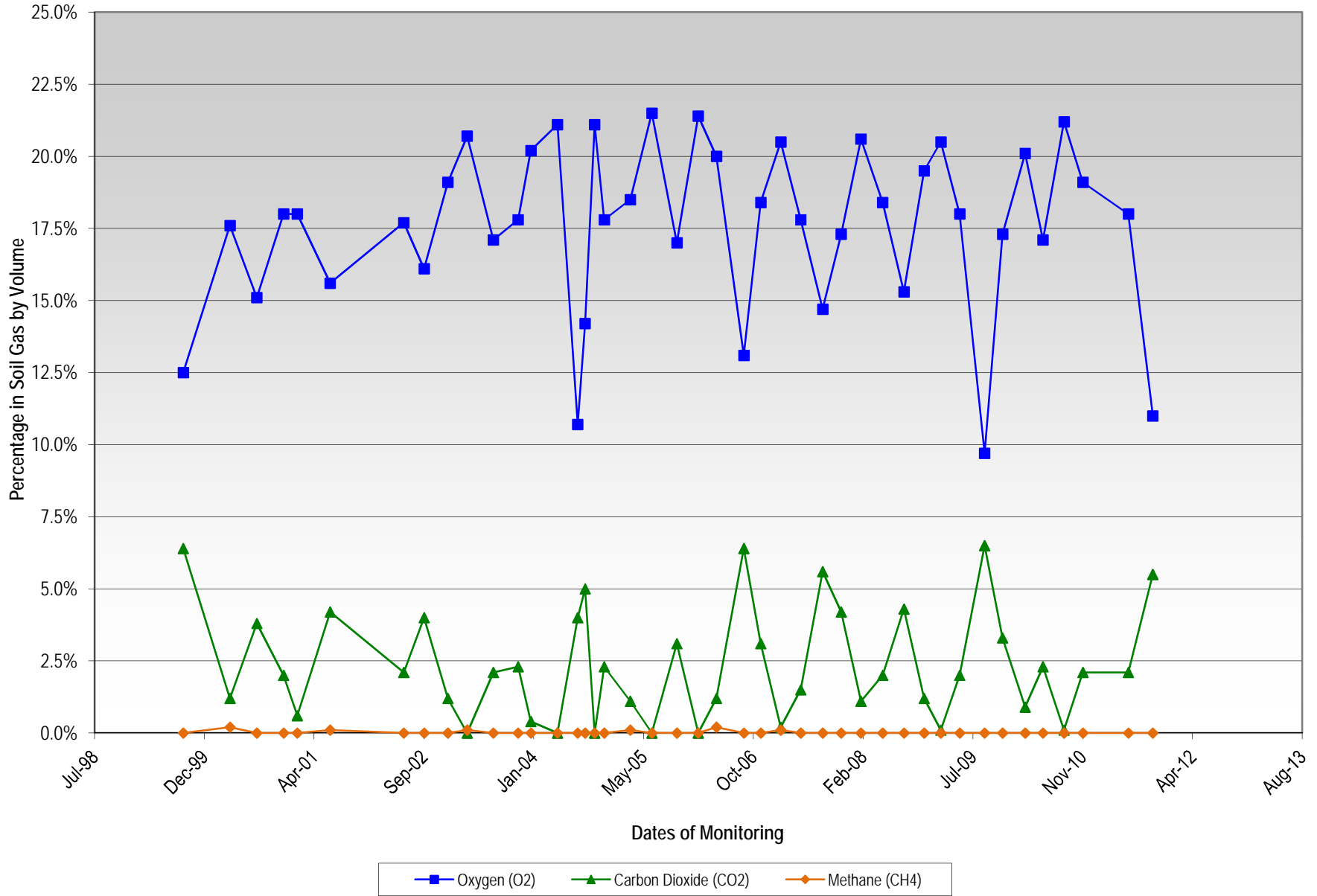
Soil Gas Well MG2
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



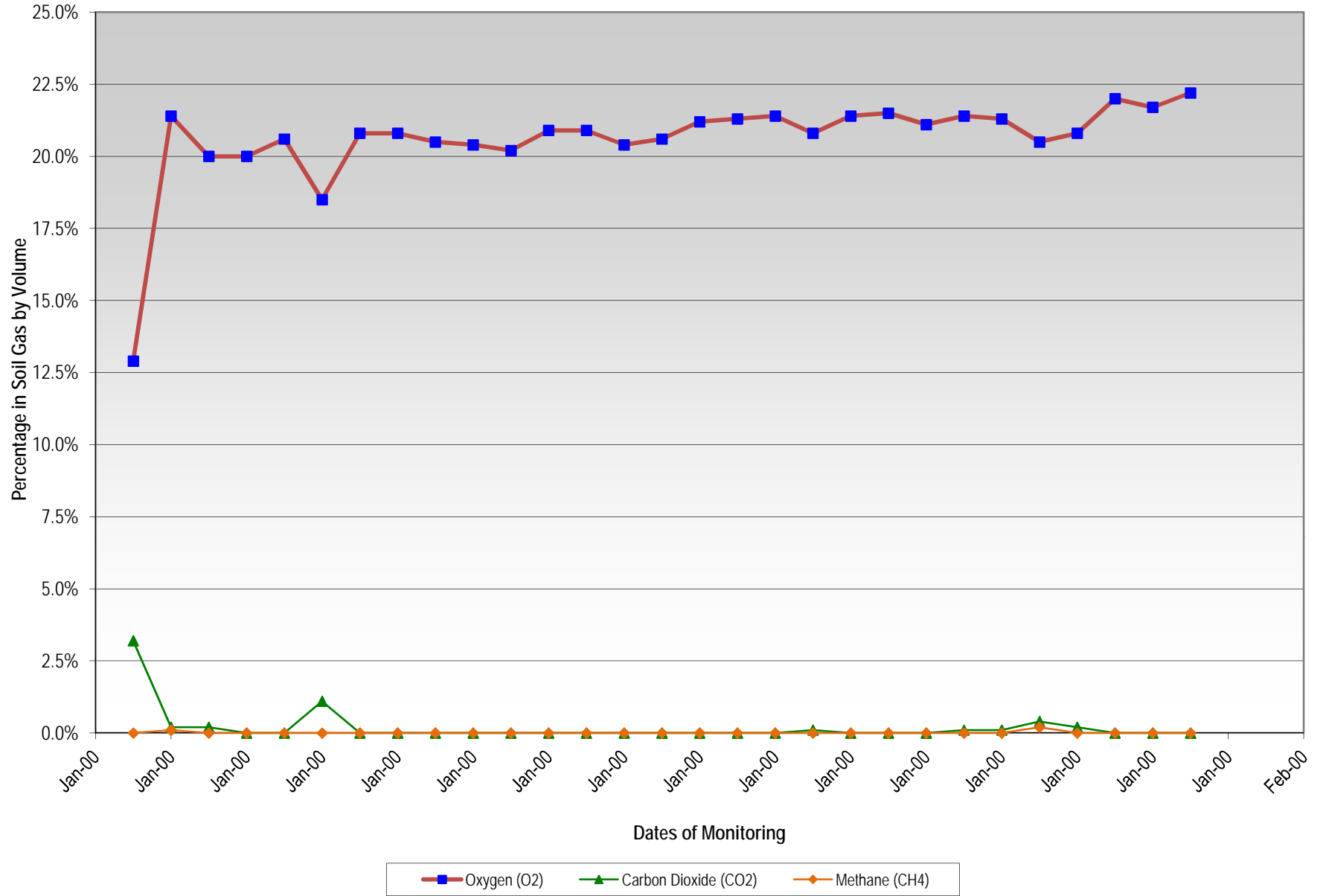
Soil Gas Well MPL5
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



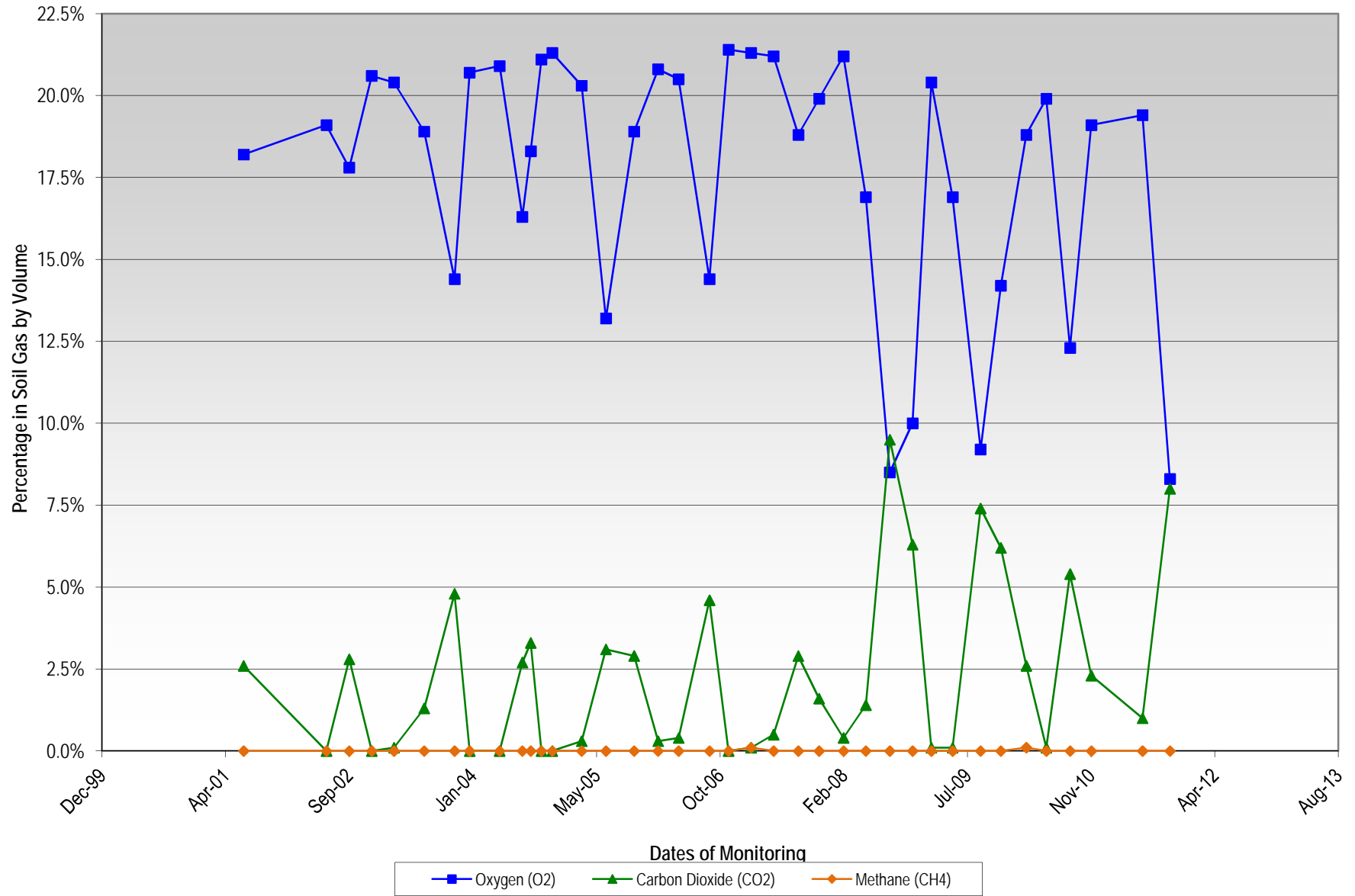
Soil Gas Well WB1
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



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

