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ENVIRONMENTAL

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

Subject:
June 2015 Quarterly Monitoring Report for Springfield Street School Complex

Date:
July 16, 2015

Contact:
Donna H. Pallister, PE

Phone:
401.285.2235

Email:
Donna.pallister@arcadis-us.com

Our ref:
WK012152.0010

Dear Mr. Crawford:

ARCADIS US, Inc. (ARCADIS) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between June 16th, 2015 and June 17th, 2015. The monitoring was performed in accordance with the *Long-Term Operation and Maintenance Plan and Site Contingency Plan* (O&M Plan) contained in the *Remedial Action Work Plan* prepared by ATC dated April 2, 1999, revised May 3, 1999 and May 9, 1999. The *Remedial Action Work Plan* (RAWP) was approved by the Rhode Island Department of Environmental Management (RIDEM) in a letter dated June 4, 1999.

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

COVER MONITORING

ARCADIS conducted a visual survey of the site on June 16th, 2015 for evidence of significant soil cover erosion, or for any areas of settling and depression.

The orange indicator barrier was not observed during the inspection, and there was no evidence of significant settling or cover erosion in need of repair.

SUB-SLAB VENTILATION SYSTEM

Field Monitoring

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on July 16, 2015. The two elementary school blowers and one of the two middle school blowers were operating normally upon arrival. The second middle school blower, middle school back, was not operating normally due to an unknown issue. ARCADIS previously determined that the motor and blower would need repair.

Samples of influent and effluent (before and after the carbon canisters) air were collected at each functioning 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 monoxide, hydrogen sulfide and organic vapors were not detected in any of the samples. Carbon dioxide was detected at concentrations ranging from 0.2% to 0.5%; all the sample concentrations were greater than the RAWP Action Level of 1000 ppm (0.1%).

Soil Gas Laboratory Results

Sub-slab soil gas samples were collected from the influent to each functioning sub-slab ventilation system. The samples were collected in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis of volatile organic compounds (VOCs) by EPA method TO-14. Results of the analysis are summarized in Table 2, and the laboratory report is provided in Attachment B.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) and CT DEEP Proposed Residential Volatilization Criteria for Soil Vapor are provided in Table 2 for comparison purposes. The OSHA PELs are not directly 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 and the CT DEEP Proposed Residential Volatilization Criteria.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on June 17, 2015 using a Landtec GEM 2000 Plus 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 3. 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 June 17, 2015 was approximately 72^{o}F and ambient carbon dioxide was measured at 451 ppm.

All readings were below the RAWP Action Levels. Methane, carbon monoxide, and hydrogen sulfide were not detected. Organic vapor was detected at concentrations between 0.2 and 0.4 ppm. These readings fall below RAWP action levels. Carbon

dioxide was detected at concentrations between 494 and 812 ppm. As noted below, these readings are within the expected range for indoor air levels of carbon dioxide in 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 CO_2 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 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 June 15, 2015. 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 groundwater monitoring wells were sampled by ARCADIS on June 15, 2015. 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 B. Results of analysis of groundwater samples are summarized in Table 4.

The only target analyte detected in any of the wells was chloromethane in monitoring well ATC-1 at a concentration of 4.1µg/L. There is no GB groundwater standard for chloromethane. This compound has not been detected during previous sampling events in this well. No other target analytes were detected in any of the groundwater samples collected on June 15, 2015.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 28 locations on June 16th, 2015. 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).

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. During the screening, well WB-4 was damaged and was not tested. Soil gas survey results are provided in Table 5. Methane, Carbon monoxide, hydrogen sulfide, and total VOCs were not detected in any samples.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.3% to 11.9% during the June monitoring event. The carbon dioxide RAWP action level of 0.1% was exceeded at every monitoring point. The maximum concentration detected during the June 2015 monitoring round was 11.9%, which was higher than the maximum detected during the April 2015 round of 8.1%. 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 depicting carbon dioxide, oxygen, and methane concentrations over time for selected representative wells are presented in Attachment C.

The presence of carbon dioxide in soil gas is an indicator of subsurface bacterial activity and does not represent a threat to users of the property. The highest concentration of carbon dioxide was found in well MPL-7, 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.

ANNUAL ELUR INSPECTIONS

After the Five Year Review of the Site was completed, RIDEM issued a letter dated August 17, 2012 which requires, among other things, that annual inspections be conducted for compliance with the Environmental Land Usage Restriction (ELUR). The Annual ELUR inspections was conducted during the June 2015 monitoring round.

The Site was inspected for compliance with the restrictions contained in Section A of the ELUR. The restrictions specified in the ELUR are listed below along with the current status with respect to the restriction:

- No residential use beyond current RIDEM approved use as a school – compliant, no change in use.
- No groundwater on the property to be used as potable water – compliant, no drinking water wells have been installed.
- No soil shall be disturbed in any manner without written permission of the Office of Waste Management except as permitted in the Long Tern Operation and Maintenance Plan (LTOMP) – compliant, no evidence of disturbance of soils not in compliance with the LTOMP.
- Humans engaged in activities at the Property shall not be exposed to soils containing Hazardous Materials and/or petroleum in concentrations exceeding applicable Department approved Direct Exposure Criteria set forth in the Remediation Regulations – compliant, no evidence of breaches of cap that would allow people at the site to come in contact with underlying impacted soil.
- No subsurface structures shall be constructed on the Property over groundwater containing Hazardous Materials and/or petroleum concentrations exceeding the applicable Department approved GB Objectives – compliant, no Hazardous Materials or petroleum have been detected in groundwater at concentrations exceeding GB Objectives.
- The engineered controls described in the LTOMP must not be disturbed and shall be properly maintained to prevent humans engaged in residential activities from being exposed to soils containing Hazardous Materials and/or petroleum in concentrations exceeding the applicable Department approved residential Direct Exposure Criteria – compliant, engineered controls are in place and properly maintained.

VACUUM TESTING

Vacuum testing was conducted on June 16th, 2015 to confirm negative pressure in the soil gas around the occupied buildings. The measurements are performed to assess whether the sub-slab ventilation system is functioning as designed. The testing confirmed the sub-slab ventilation system is performing as designed. Vacuum testing results may be found on Figure 1.

CONCLUSIONS

Methane, hydrogen sulfide, carbon monoxide and organic vapor concentrations did not exceed RAWP action levels in any soil gas or indoor air samples in this quarterly round of sampling. Carbon dioxide concentrations exceeded the action level at 33 soil gas locations and sub slab 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 401-285-2235.

Sincerely,

ARCADIS U.S., Inc.

Donna H. Pallister, PE, LSP
Senior Environmental Engineer

Copies:
A. Sepe, City of Providence
Providence Public Building Authority

ARCADIS

Tables

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
June 16, 2015

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	19.9	0	0	0.0
Elementary School inlet 2	0.0	0.3	20.2	0	0	0.0
Elementary School Outlet	0.0	0.4	20.0	0	0	0.0
Middle School front shed inlet *	0.0	0.2	19.8	0	0	0.0
Middle School front shed after 2nd carbon *	0.0	0.2	19.9	0	0	0.0
Middle School back shed inlet #	NT	NT	NT	NT	NT	NT
Middle School back shed after 2nd carbon #	NT	NT	NT	NT	NT	NT
Remedial Action Work Plan Action Levels	**0.5**	**1,000 ppm (0.1%)**	**NA**	**9 ppm**	**10 ppm**	**5 ppm**

Measurements made with: Landtec GEM2000 Plus, MiniRae 2000

Sampling date: June 16, 2015

Measured by: Andrew DaSilva

***-** Tested on

#- Middle school back shed not tested because blower not functioning properly

Table 2
Soil Gas Samples Collected from System Influent
Springfield Street School Complex

Parameter	Sample Date	CT DEEP Proposed Residental Volatization Criteria For Soil Vapor (ug/m3)*	OSHA PEL's (ug/m3)	Middle School Back (ug/m3)	Middle School Front (ug/m3)	Elementary School #1 (ug/m3)	Elementary School # 2 (ug/m3)
Benzene	3/24/2014	3,247	3,000	0.57	0.63	0.72	0.68
	6/10/14 and 7/01/14			0.42	0.52	0.45	ND
	9/19/14 and 9/23/14			NT	0.53	0.7	0.57
	12/19/2014			NT	0.93	0.63	0.67
	5/11/2015			NT	0.43	0.49	0.61
	6/16/2015			NT	ND	ND	ND
Carbon Tetrachloride	3/24/2014	6,395	62,900	ND	ND	ND	ND
	6/10/14 and 7/01/14			0.46	0.68	ND	ND
	9/19/14 and 9/23/14			NT	ND	ND	ND
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	ND	ND	ND
	6/16/2015			NT	ND	ND	ND
Chloroform	3/24/2014	22,334	240,000	ND	ND	0.76	0.75
	6/10/14 and 7/01/14			0.46	ND	1.9	1.9
	9/19/14 and 9/23/14			NT	ND	2.2	2.2
	12/19/2014			NT	ND	1	1.1
	5/11/2015			NT	ND	0.85	1.1
	6/16/2015			NT	ND	1.5	1.5
Chloromethane	3/24/2014	NA	207,000	ND	0.44	ND	ND
	6/10/14 and 7/01/14			1.2	ND	ND	ND
	9/19/14 and 9/23/14			NT	0.89	ND	ND
	12/19/2014			NT	1.20	ND	ND
	5/11/2015			NT	0.57	ND	ND
	6/16/2015			NT	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	3/24/2014	NA	4,950,000	4.4	2.6	3.1	3.1
	6/10/14 and 7/01/14			4.6	6.9	4.1	4.1
	9/19/14 and 9/23/14			NT	38	3.8	3.9
	12/19/2014			NT	3.6	4.9	5
	5/11/2015			NT	3.00	4.10	3.00
	6/16/2015			NT	4.1	6.6	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3/24/2014	NA	7,000,000	4.2	1.1	0.75	0.75
	6/10/14 and 7/01/14			5.4	6.1	ND	0.91
	9/19/14 and 9/23/14			NT	24	2.0	2
	12/19/2014			NT	ND	1	0.98
	5/11/2015			NT	0.82	2.1	1.1
	6/16/2015			NT	2.5	8.2	1.2
Ethylbenzene	3/24/2014	7,281,812	435,000	0.70	0.70	0.77	0.66
	6/10/14 and 7/01/14			0.29	0.52	ND	ND
	9/19/14 and 9/23/14			NT	ND	ND	ND
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	2.80	2.5	3.9
	6/16/2015			NT	0.50	0.53	0.56
Methylene Chloride	3/24/2014	4,237,289	86,750	6.6	5.5	6.6	6.2
	6/10/14 and 7/01/14			6.2	12	11	11
	9/19/14 and 9/23/14			NT	6.7	23	20
	12/19/2014			NT	3.9	4.4	4.2
	5/11/2015			NT	ND	ND	ND
	6/16/2015			NT	110	78	64
Styrene	3/24/2014	34,633	456,000	0.49	0.49	ND	0.48
	6/10/14 and 7/01/14			56	13	5.3	5
	9/19/14 and 9/23/14			NT	4.7	3.5	2.9
	12/19/2014			NT	5	2.7	2.5
	5/11/2015			NT	30	28	34
	6/16/2015			NT	1.7	1.5	1.7
Tetrachloroethylene	3/24/2014	75,840	678,000	3.6	2.3	3.3	2.9
	6/10/14 and 7/01/14			3.2	5.6	3.3	4.2
	9/19/14 and 9/23/14			NT	3.6	100	13
	12/19/2014			NT	1.8	2.8	3.3
	5/11/2015			NT	15	11	3.7
	6/16/2015			NT	3.9	23	4.8
Toluene	3/24/2014	2,910,779	750,000	4.5	4.7	4.7	5.3
	6/10/14 and 7/01/14			51	33	13	10
	9/19/14 and 9/23/14			NT	8.3	6.6	5.9
	12/19/2014			NT	54	20	22
	5/11/2015			NT	46	41	53
	6/16/2015			NT	5.7	4.7	6.2
1,1,1-Trichloroethane	3/24/2014	NA	1,900,000	ND	ND	ND	ND
	6/10/14 and 7/01/14			ND	ND	ND	ND
	9/19/14 and 9/23/14			NT	ND	0.68	ND
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	ND	ND	ND
	6/16/2015			NT	ND	ND	ND
Trichloroethylene	3/24/2014	38,237	537,000	ND	ND	0.62	0.56
	6/10/14 and 7/01/14			0.35	0.71	0.59	0.54
	9/19/14 and 9/23/14			NT	ND	1.7	0.84
	12/19/2014			NT	0.82	ND	1.2
	5/11/2015			NT	ND	1.5	ND
	6/16/2015			NT	ND	2.1	ND
Trichlorofluoromethane (Freon 11)	3/24/2014	NA	5,600,000	3.2	2.4	2.8	2.8
	6/10/14 and 7/01/14			4	10	15	8.1
	9/19/14 and 9/23/14			NT	7.3	4.3	6.3
	12/19/2014			NT	5.0	3.1	4
	5/11/2015			NT	2.7	2.6	4.5
	6/16/2015			NT	2.3	2.9	2.6
1,1,2- Trichloro-1,2,2-trifluoromethane(Freon 113)	3/24/2014	NA	7,600,000	ND	ND	ND	ND
	6/10/14 and 7/01/14			ND	ND	ND	ND
	9/19/14 and 9/23/14			NT	0.89	ND	ND
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	ND	ND	ND
	6/16/2015			NT	ND	ND	ND
1,2,4-Trimethylbenzene	3/24/2014	NA	125,000	ND	0.11	ND	ND
	6/10/14 and 7/01/14			0.35	ND	ND	ND
	9/19/14 and 9/23/14			NT	ND	ND	ND
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	1.3	1.7	2.3
	6/16/2015			NT	1.6	1.5	1.5
M/p-Xylene	3/24/2014	2,215,755#	435,000	2.9	3.2	3.3	2.9
	6/10/14 and 7/01/14			1.1	2.2	1.6	1.8
	9/19/14 and 9/23/14			NT	1.3	1.2	1.3
	12/19/2014			NT	0.96	0.89	ND
	5/11/2015			NT	18	17	25
	6/16/2015			NT	2.4	2.4	2.6
o-Xylene	3/24/2014	2,215,755#	435,000	1.4	1.4	1.4	1.2
	6/10/14 and 7/01/14			0.66	1.1	0.84	0.83
	9/19/14 and 9/23/14			NT	0.55	0.63	0.74
	12/19/2014			NT	ND	ND	ND
	5/11/2015			NT	3.6	3.5	5.4
	6/16/2015			NT	1.4	1.3	1.3

Notes:
Samples collected in Tedlar bags and analyzed via EPA method TO-14
Only detected compounds are listed, see laboratory certificate for complete list of analyses
OSHA PEL's = Occupational Safety and Health Administration Permissable Exposure Limits
CT DEEP= Connecticut Dpeartment of Energy and Environmental Protection
ug/m3 = micrograms per cubic meter
* From Appendix F to Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies
#- Represents Total Xylenes
Samples collected prior to March 2014 are not shown.

Table 3
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
June 17, 2015

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Front office	0.0	628	20.7	0	0	0.3
E.S. Elevator	0.0	668	20.6	0	0	0.3
E.S. Faculty Work Room	0.0	709	20.6	0	0	0.3
E.S. Gym	0.0	674	20.6	0	0	0.4
E.S. Stairway B	0.0	771	20.6	0	0	0.4
E.S. Stairway C	0.0	683	20.6	0	0	0.4
E.S. Library	0.0	655	20.6	0	0	0.3
E.S. Front Stairs	0.0	653	20.6	0	0	0.3
E.S. Cafeteria	0.0	828	20.6	0	0	0.4
E.S. Mechanical Room	0.0	694	20.6	0	0	0.3

Table 3
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
June 17, 2015

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Office	0.0	494	20.6	0	0	0.2
M.S. Elevator	0.0	732	20.7	0	0	0.4
M.S. Stairway near Elem. School GS-01	0.0	738	20.7	0	0	0.3
M.S. Near sensor #16 in hall outside cafeteria	0.0	762	20.7	0	0	0.3
M.S. Faculty Work Room	0.0	689	20.7	0	0	0.2
M.S. Sensor #15 Outside Gym	0.0	751	20.7	0	0	0.4
M.S. GS-03 Across from Boys Bathroom	0.0.	724	20.8	0	0	0.4
M.S. Gym	0.0	711	20.8	0	0	0.3
M.S. Outside of Music Room	0.0	726	20.7	0	0	0.4
M.S. Cafeteria	0.0	764	20.7	0	0	0.3

Table 3
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
June 17, 2015

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	0.0	572	20.7	0	0	0.3
M.S. Hallway across from elevator near sensor #9	0.0	643	20.7	0	0	0.4
M.S. Near sensor GS 06 hallway right end	0.0	812	20.7	0	0	0.3
M.S. stairway near Hartford Ave. sensor GS-7	0.0	728	20.7	0	0	0.2
Remedial Action Work Plan Action Levels	**0.0**	**1,000 ppm (0.1%)**	**NA**	**9 ppm**	**5 ppm**	**5 ppm**

Notes: The indoor air quality monitoring panels in the M.S. and E.S. were calibrated on 11/24/2014.

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

Measurements made with: MiniRae photoionization detector, Fluke 975 Airmeter, Landtec Gem 2000 Plus

PPM = Parts per million

Outdoor conditions: carbon dioxide = 451 ppm temperature = 72 degrees F

Table 4
Groundwater Monitoring Results
Springfield Street School
Providence, Rhode Island

Well ID	Detected Compounds	3/24/2014	6/10/2014	9/19/2014	12/18/2014	4/2/2015	6/15/2015	RIDEM GB Groundwater Objective
ATC-1								
	Chloromethane	ND	ND	ND	ND	ND	4.1	NA
ATC-2								
	Chloroform	Closed	Closed	Closed	Closed	Closed	Closed	NA
		4/2011	4/2011	4/2011	4/2011	4/2011	4/2011	
MW-6								
	Chloroform	ND	2.1	4.1	ND	ND	ND	NA
Installed 4/2011								
ATC-3								
		Closed	Closed	Closed	Closed	Closed	Closed	
		4/2011	4/2011	4/2011	4/2011	4/2011	4/2011	
MW-7		ND	ND	ND	ND	ND	ND	
Installed 4/2011								
ATC-4								
	1,4-dichlorobenzene	1.6	ND	2.0	1.2	ND	ND	NA
ATC-5								
		Closed	Closed	Closed	Closed	Closed	Closed	
		4/2011	4/2011	4/2011	4/2011	4/2011	4/2011	
MW-8		ND	ND	ND	ND	ND	ND	
Installed 4/2011								
Sampled By:		ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	

ND = not detected above method detection limit
NS = not sampled
NA = No applicable standard published
Results are in µg/L (micrograms per liter) unless otherwise noted.

Table 5
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
June 16, 2015

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-1	0.0	2.5	17.5	0	0	0.0
WB-2	0.0	1.3	19.4	0	0	0.0
WB-3	0.0	0.4	20.6	0	0	0.0
WB-4	Well Damaged					
WB-5	0.0	0.3	20.7	0	0	0.0
WB-6	0.0	0.4	20.6	0	0	0.0
WB-7 R	0.0	0.8	20.0	0	0	0.0
WB-8	0.0	0.2	20.8	0	0	0.0
WB-12	0.0	1.8	19.2	0	0	0.0
WB-13	0.0	0.3	20.6	0	0	0.0
WB-14	0.0	0.5	20.3	0	0	0.0
WB-15	0.0	0.9	18.0	0	0	0.0
EPL-1	0.0	1.0	19.9	0	0	0.0
EPL-2	0.0	2.2	18.4	0	0	0.0
EPL-3	0.0	4.0	16.3	0	0	0.0
EPL-4	0.0	2.7	17.7	0	0	0.0
EPL-5	0.0	3.2	16.7	0	0	0.0
ENE-1	0.0	1.0	19.0	0	0	0.0

Table 5
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
June 16, 2015

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	2.3	17.2	0	0	0.0
MG2	0.0	3.1	17.2	0	0	0.0
MG3	0.0	2.6	16.9	0	0	0.0
MG4	0.0	0.8	19.4	0	0	0.0
MG5	0.0	0.4	20.4	0	0	0.0
MPL2	0.0	4.3	13.4	0	0	0.0
MPL3	0.0	6.1	11.2	0	0	0.0
MPL5	0.0	6.0	12.0	0	0	0.0
MPL6	0.0	10.7	7.5	0	0	0.0
MPL7	0.0	11.9	6.5	0	0	0.0
MPL8	0.0	4.4	14.3	0	0	0.0
Remedial Action Work Plan Action Levels	**0.5%**	**0.1% (1,000 PPM)**	**NA**	**9 PPM**	**5 PPM**	**5 PPM**

Sampled by: Andrew DaSilva

Weather Conditions:

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID

ARCADIS

Figures

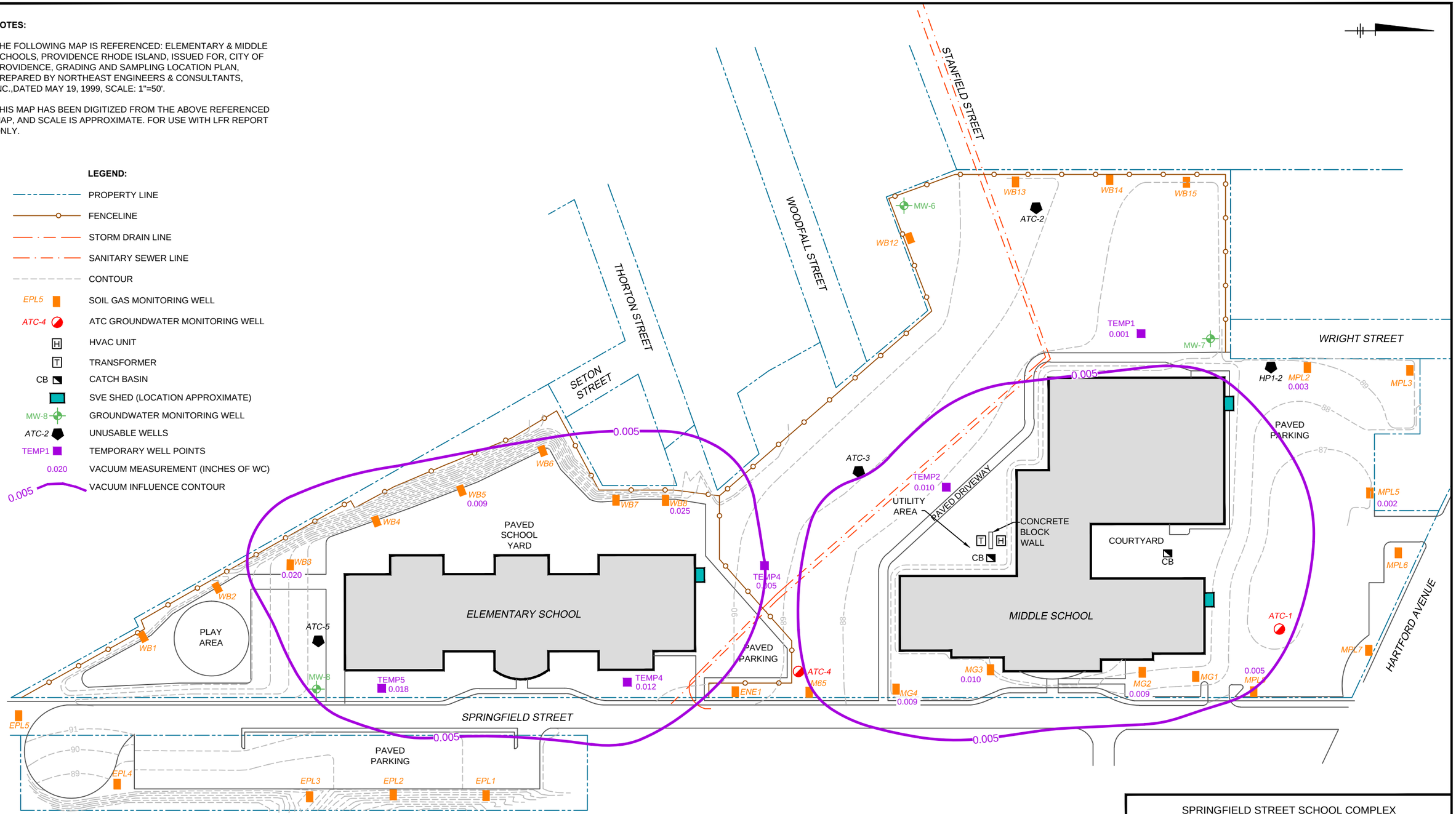
NOTES:

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
- H — HVAC UNIT
- T — TRANSFORMER
- CB — CATCH BASIN
- SVE SHED (LOCATION APPROXIMATE)
- MW-8 — GROUNDWATER MONITORING WELL
- ATC-2 — UNUSABLE WELLS
- TEMP1 — TEMPORARY WELL POINTS
- 0.020 — VACUUM MEASUREMENT (INCHES OF WC)
- 0.005 — VACUUM INFLUENCE CONTOUR



SPRINGFIELD STREET SCHOOL COMPLEX
SPRINGFIELD STREET
PROVIDENCE, RHODE ISLAND

AREA OF VACUUM INFLUENCE
JUNE 16, 2015

ARCADIS

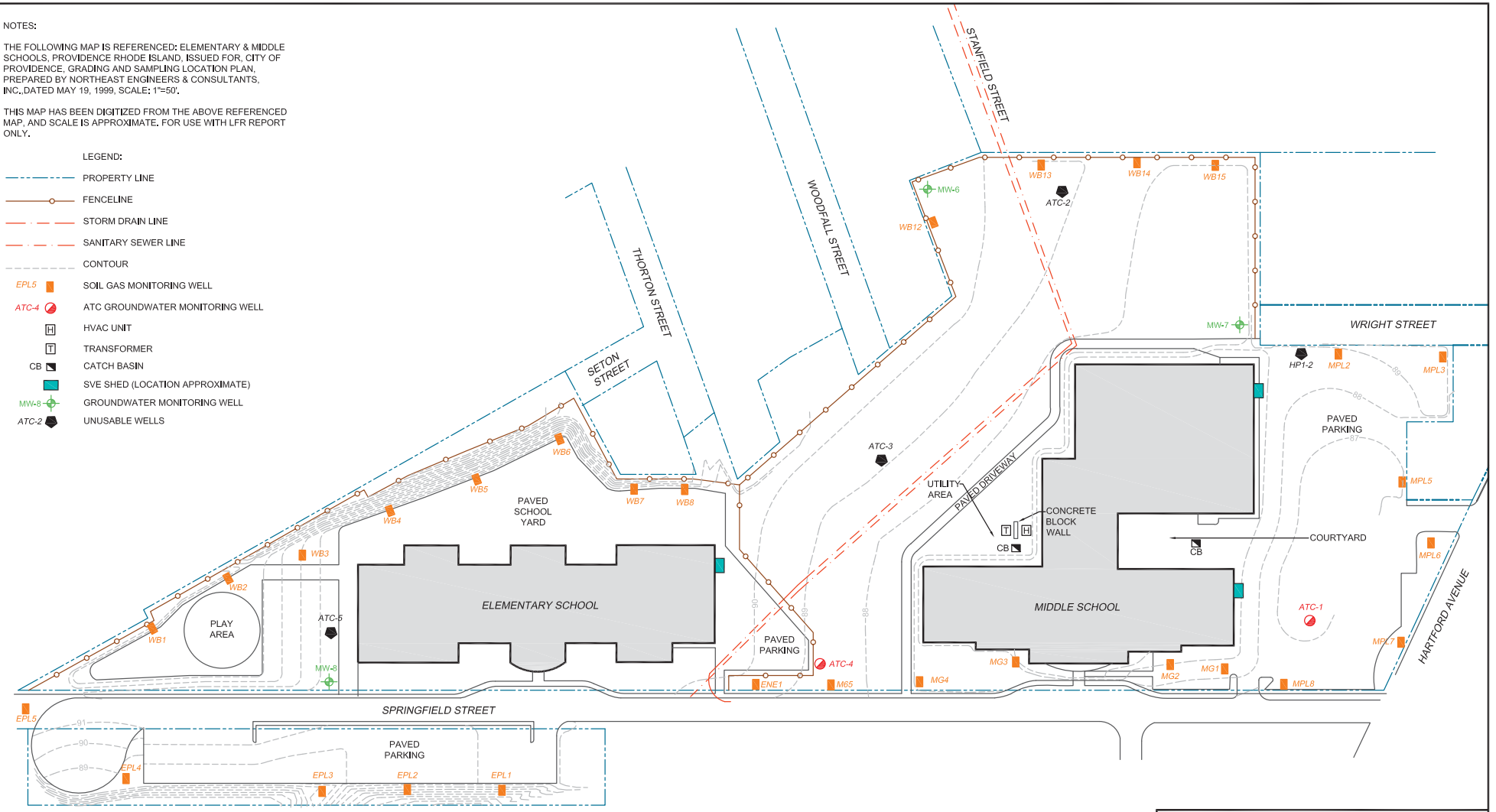
FIGURE 1

CITY: MANCHESTER, CT DIV/GROUP: ENVCAD DB: B. SMALL PM: TM:
G:\ENVCAD\MANCHESTER\ACT\WK012152016\0001\WK012152_JUNE 2015.dwg LAYOUT: 1 SAVED: 9/28/2016 2:33 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: PDF-LB PLOTSTYLETABLE: ---- PLOTTED: 9/28/2016 2:34 PM BY: HALLIWELL, TRISH

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.



SPRINGFIELD STREET SCHOOL COMPLEX
SPRINGFIELD STREET
PROVIDENCE, RHODE ISLAND

SITE PLAN

ARCADIS

FIGURE
2

Attachment A

Limitations and 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' 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.

Attachment B

Laboratory Results

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 24, 2015

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

Project Location: Springfield St., Providence, RI
Client Job Number:
Project Number: WK012152.0010
Laboratory Work Order Number: 15F0854

Enclosed are results of analyses for samples received by the laboratory on June 17, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

REPORT DATE: 6/24/2015

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0010

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15F0854

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

PROJECT LOCATION: Springfield St., Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ES#1	15F0854-01	Sub Slab		EPA TO-14A	
ES#2	15F0854-02	Sub Slab		EPA TO-14A	
MS Front	15F0854-03	Sub Slab		EPA TO-14A	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
B124712-BS1

Hexachlorobutadiene
B124712-BS1

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.

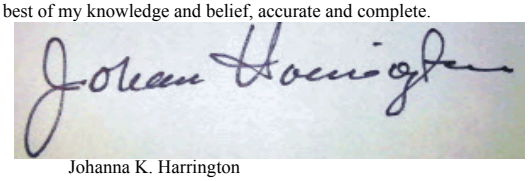
Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
B124712-BS1

1,4-Dichlorobenzene
B124712-BS1

Hexachlorobutadiene
B124712-BS1

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.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: ES#1
Sample ID: 15F0854-01
Sample Matrix: Sub Slab
Sampled: 6/16/2015 09:45

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

Work Order: 15F0854
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	ND	0.10		ND	0.32	2	6/19/15 8:08	TPH
Bromomethane	ND	0.10		ND	0.39	2	6/19/15 8:08	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	6/19/15 8:08	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	6/19/15 8:08	TPH
Chloroethane	ND	0.10		ND	0.26	2	6/19/15 8:08	TPH
Chloroform	0.30	0.10		1.5	0.49	2	6/19/15 8:08	TPH
Chloromethane	ND	0.20		ND	0.41	2	6/19/15 8:08	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	6/19/15 8:08	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:08	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:08	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:08	TPH
Dichlorodifluoromethane (Freon 12)	1.3	0.10		6.6	0.49	2	6/19/15 8:08	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 8:08	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 8:08	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 8:08	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 8:08	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	6/19/15 8:08	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 8:08	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 8:08	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	1.2	0.10		8.2	0.70	2	6/19/15 8:08	TPH
Ethylbenzene	0.12	0.10		0.53	0.43	2	6/19/15 8:08	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	6/19/15 8:08	TPH
Methylene Chloride	22	1.0		78	3.5	2	6/19/15 8:08	TPH
Styrene	0.35	0.10		1.5	0.43	2	6/19/15 8:08	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	6/19/15 8:08	TPH
Tetrachloroethylene	3.3	0.10		23	0.68	2	6/19/15 8:08	TPH
Toluene	1.3	0.10		4.7	0.38	2	6/19/15 8:08	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	6/19/15 8:08	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 8:08	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 8:08	TPH
Trichloroethylene	0.39	0.10		2.1	0.54	2	6/19/15 8:08	TPH
Trichlorofluoromethane (Freon 11)	0.52	0.10		2.9	0.56	2	6/19/15 8:08	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	6/19/15 8:08	TPH
1,2,4-Trimethylbenzene	0.30	0.10		1.5	0.49	2	6/19/15 8:08	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	6/19/15 8:08	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	6/19/15 8:08	TPH
m&p-Xylene	0.55	0.20		2.4	0.87	2	6/19/15 8:08	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: ES#1
Sample ID: 15F0854-01
Sample Matrix: Sub Slab
Sampled: 6/16/2015 09:45

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

Work Order: 15F0854
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.29	0.10		1.3	0.43	2	6/19/15 8:08	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	122	70-130	6/19/15 8:08

con-test® ANALYTICAL LABORATORY
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ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: ES#2
Sample ID: 15F0854-02
Sample Matrix: Sub Slab
Sampled: 6/16/2015 09:50

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

Work Order: 15F0854
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	ND	0.10		ND	0.32	2	6/19/15 8:46	TPH
Bromomethane	ND	0.10		ND	0.39	2	6/19/15 8:46	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	6/19/15 8:46	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	6/19/15 8:46	TPH
Chloroethane	ND	0.10		ND	0.26	2	6/19/15 8:46	TPH
Chloroform	0.31	0.10		1.5	0.49	2	6/19/15 8:46	TPH
Chloromethane	ND	0.20		ND	0.41	2	6/19/15 8:46	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	6/19/15 8:46	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:46	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:46	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 8:46	TPH
Dichlorodifluoromethane (Freon 12)	0.72	0.10		3.6	0.49	2	6/19/15 8:46	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 8:46	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 8:46	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 8:46	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 8:46	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	6/19/15 8:46	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 8:46	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 8:46	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.17	0.10		1.2	0.70	2	6/19/15 8:46	TPH
Ethylbenzene	0.13	0.10		0.56	0.43	2	6/19/15 8:46	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	6/19/15 8:46	TPH
Methylene Chloride	18	1.0		64	3.5	2	6/19/15 8:46	TPH
Styrene	0.41	0.10		1.7	0.43	2	6/19/15 8:46	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	6/19/15 8:46	TPH
Tetrachloroethylene	0.70	0.10		4.8	0.68	2	6/19/15 8:46	TPH
Toluene	1.6	0.10		6.2	0.38	2	6/19/15 8:46	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	6/19/15 8:46	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 8:46	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 8:46	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	6/19/15 8:46	TPH
Trichlorofluoromethane (Freon 11)	0.45	0.10		2.6	0.56	2	6/19/15 8:46	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	6/19/15 8:46	TPH
1,2,4-Trimethylbenzene	0.31	0.10		1.5	0.49	2	6/19/15 8:46	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	6/19/15 8:46	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	6/19/15 8:46	TPH
m&p-Xylene	0.61	0.20		2.6	0.87	2	6/19/15 8:46	TPH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: ES#2
Sample ID: 15F0854-02
Sample Matrix: Sub Slab
Sampled: 6/16/2015 09:50

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

Work Order: 15F0854
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.31	0.10		1.3	0.43	2	6/19/15 8:46	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	121	70-130	6/19/15 8:46

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: MS Front
Sample ID: 15F0854-03
Sample Matrix: Sub Slab
Sampled: 6/16/2015 10:10

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

Work Order: 15F0854
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

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag/Qual	Results	RL	Dilution	Analyzed	Analyst
Benzene	ND	0.10		ND	0.32	2	6/19/15 9:23	TPH
Bromomethane	ND	0.10		ND	0.39	2	6/19/15 9:23	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	6/19/15 9:23	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	6/19/15 9:23	TPH
Chloroethane	ND	0.10		ND	0.26	2	6/19/15 9:23	TPH
Chloroform	ND	0.10		ND	0.49	2	6/19/15 9:23	TPH
Chloromethane	ND	0.20		ND	0.41	2	6/19/15 9:23	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	6/19/15 9:23	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 9:23	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 9:23	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	6/19/15 9:23	TPH
Dichlorodifluoromethane (Freon 12)	0.82	0.10		4.1	0.49	2	6/19/15 9:23	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 9:23	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	6/19/15 9:23	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 9:23	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	6/19/15 9:23	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	6/19/15 9:23	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 9:23	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	6/19/15 9:23	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.35	0.10		2.5	0.70	2	6/19/15 9:23	TPH
Ethylbenzene	0.12	0.10		0.50	0.43	2	6/19/15 9:23	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	6/19/15 9:23	TPH
Methylene Chloride	32	1.0		110	3.5	2	6/19/15 9:23	TPH
Styrene	0.40	0.10		1.7	0.43	2	6/19/15 9:23	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	6/19/15 9:23	TPH
Tetrachloroethylene	0.57	0.10		3.9	0.68	2	6/19/15 9:23	TPH
Toluene	1.5	0.10		5.7	0.38	2	6/19/15 9:23	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	6/19/15 9:23	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 9:23	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	6/19/15 9:23	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	6/19/15 9:23	TPH
Trichlorofluoromethane (Freon 11)	0.41	0.10		2.3	0.56	2	6/19/15 9:23	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	6/19/15 9:23	TPH
1,2,4-Trimethylbenzene	0.32	0.10		1.6	0.49	2	6/19/15 9:23	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	6/19/15 9:23	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	6/19/15 9:23	TPH
m&p-Xylene	0.55	0.20		2.4	0.87	2	6/19/15 9:23	TPH

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ANALYTICAL RESULTS

Project Location: Springfield St., Providence, RI
Date Received: 6/17/2015
Field Sample #: MS Front
Sample ID: 15F0854-03
Sample Matrix: Sub Slab
Sampled: 6/16/2015 10:10

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

Work Order: 15F0854
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.31	0.10		1.4	0.43	2	6/19/15 9:23	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	122	70-130	6/19/15 9:23

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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
15F0854-01 [ES#1]	B124712	1	1	N/A	1000	400	200	06/18/15
15F0854-02 [ES#2]	B124712	1	1	N/A	1000	400	200	06/18/15
15F0854-03 [MS Front]	B124712	1	1	N/A	1000	400	200	06/18/15

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B124712 - TO-15 Prep											
Blank (B124712-BLK1)					Prepared & Analyzed: 06/18/15						
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	0.050									
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									
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.025									
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)	*9.54*				*8.00*		*119*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B124712 - TO-15 Prep												
LCS (B124712-BS1)					Prepared & Analyzed: 06/18/15							
Benzene	5.01				5.00		100		70-130			
Bromomethane	5.26				5.00		105		70-130			
Carbon Tetrachloride	5.08				5.00		102		70-130			
Chlorobenzene	5.33				5.00		107		70-130			
Chloroethane	3.76				5.00		75.2		70-130			
Chloroform	5.36				5.00		107		70-130			
Chloromethane	3.96				5.00		79.2		70-130			
1,2-Dibromoethane (EDB)	4.86				5.00		97.3		70-130			
1,2-Dichlorobenzene	5.70				5.00		114		70-130			
1,3-Dichlorobenzene	5.87				5.00		117		70-130			
1,4-Dichlorobenzene	5.89				5.00		118		70-130			V-06
Dichlorodifluoromethane (Freon 12)	6.18				5.00		124		70-130			
1,1-Dichloroethane	4.50				5.00		90.0		70-130			
1,2-Dichloroethane	4.31				5.00		86.1		70-130			
1,1-Dichloroethylene	4.70				5.00		94.0		70-130			
cis-1,2-Dichloroethylene	4.60				5.00		91.9		70-130			
1,2-Dichloropropane	4.20				5.00		84.0		70-130			
cis-1,3-Dichloropropene	4.80				5.00		96.0		70-130			
trans-1,3-Dichloropropene	4.94				5.00		98.9		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.14				5.00		103		70-130			
Ethylbenzene	4.98				5.00		99.7		70-130			
Hexachlorobutadiene	7.02				5.00		**140**	*	70-130			L-01, V-06
Methylene Chloride	4.46				5.00		89.2		70-130			
Styrene	4.78				5.00		95.6		70-130			
1,1,2,2-Tetrachloroethane	4.62				5.00		92.4		70-130			
Tetrachloroethylene	5.59				5.00		112		70-130			
Toluene	4.80				5.00		96.1		70-130			
1,2,4-Trichlorobenzene	6.92				5.00		**138**	*	70-130			L-01, V-06
1,1,1-Trichloroethane	4.85				5.00		96.9		70-130			
1,1,2-Trichloroethane	4.61				5.00		92.1		70-130			
Trichloroethylene	5.05				5.00		101		70-130			
Trichlorofluoromethane (Freon 11)	5.05				5.00		101		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.67				5.00		113		70-130			
1,2,4-Trimethylbenzene	4.74				5.00		94.8		70-130			
1,3,5-Trimethylbenzene	4.67				5.00		93.4		70-130			
Vinyl Chloride	4.21				5.00		84.2		70-130			
m&p-Xylene	10.2				10.0		102		70-130			
o-Xylene	4.77				5.00		95.4		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*9.66*				*8.00*		*121*		*70-130*			

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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.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is 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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-14A in Air	
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-Dibromoethane (EDB)	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
trans-1,3-Dichloropropene	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
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

con-test ANALYTICAL LABORATORY
www.contestlabs.com
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

15F0854

DOC#284
Rev. Feb 2014

Company Name: ARCADIS
Address: 300 Metro Center Blvd, Warwick, RI 02886
Attention: E-Donna Pallister
Project Location: Springfield St, Pray, MA
Sampled By: A. DaSilva

Telephone: 401-738-3887
Project #: WK012152.0010
Client PO #:

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax #:
Email: donna.pallister@arcadis-us.com
Format: ☒EXCEL ☑PDF ☐GIS KEY ☐OTHER

Proposal Provided? (For Billing purposes)
☐yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date	Date Sampled Start Time	Date Sampled Stop Date	Date Sampled Stop Time	ONLY USE WHEN USING PUMPS: Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	ANALYSIS REQUESTED: TO-14	"Hg: Initial pressure	"Hg: Final pressure	"Hg: Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	ES#1	T	01	6/16/15	0945						SS	X					
	ES#2	T	02	"	0950						SS	X					
	MS Front	T	03	"	1010						SS	X					

Please fill out completely, sign, date and retain the yellow copy for your record.
Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
For summa canister and flow controller information please refer to Con-Test's Air Media Agreement.

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature) (to ref)	Date/Time: 1700 6/16/15	
Received by: (signature)	Date/Time: 10:45	
Relinquished by: (signature)	Date/Time: 12:30	
Received by: (signature) 6/17/15	Date/Time: 12:30	

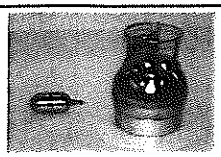
Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐Y ☐N
Enhanced Data Package ☐Y ☐N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
T=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
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. NELAC & AIHA-LAP, LLC Accredited/WBE/DBE Certifi



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con-test ANALYTICAL LABORATORY

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

AIR Only Receipt Checklist

CLIENT NAME: ARCADIS RECEIVED BY: KB DATE: 6/17/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No 20°

2) Does the chain agree with the samples? (Yes) No In cooler

If not, explain:

3) Are all the samples in good condition? (Yes) No No Ice

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: Air Lab

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

7) Number of cans Individually Certified or Batch Certified? _____

Containers received at Con-Test

		# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)			
Tedlar Bags		3	
TO-17 Tubes			
Regulators			
Restrictors			
Hg/Hopcalite Tube (NIOSH 6009)			
(TO-4A/ TO-10A/TO-13) PUFs			
PCB Florisil Tubes (NIOSH 5503)			
Air cassette			
PM 2.5/PM 10			
TO-11A Cartridges			
Other			

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The coolers'/boxes' custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	F	
4) Cooler Temperature is acceptable.	F	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) Samples are received within Holding Time.	T	
10) Sample containers have legible labels.	T	
11) Containers/media are not broken or leaking and valves and caps are closed tightly.	T	
12) Sample collection date/times are provided.	T	
13) Appropriate sample/media containers are used.	T	
14) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
15) Trip blanks provided if applicable.	NA	

Who notified of False statements?

Log-In Technician Initials: KB

Date/Time: 6/17/15 12:30

Date/Time:

Doc #278 Rev. 5 October 2014

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 25, 2015

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

Project Location: Springfield St., Providence, RI
Client Job Number:
Project Number: WK012152.0010
Laboratory Work Order Number: 15F0851

Enclosed are results of analyses for samples received by the laboratory on June 17, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

REPORT DATE: 6/25/2015

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0010

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15F0851

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

PROJECT LOCATION: Springfield St., Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-8	15F0851-01	Ground Water		SW-846 8260C	
ATC-4	15F0851-02	Ground Water		SW-846 8260C	
MW-6	15F0851-03	Ground Water		SW-846 8260C	
MW-7	15F0851-04	Ground Water		SW-846 8260C	
ATC-1	15F0851-05	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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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:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B124760-BS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

15F0851-01[MW-8], 15F0851-02[ATC-4], 15F0851-03[MW-6], 15F0851-04[MW-7], 15F0851-05[ATC-1], B124760-BLK1, B124760-BSD1

V-05

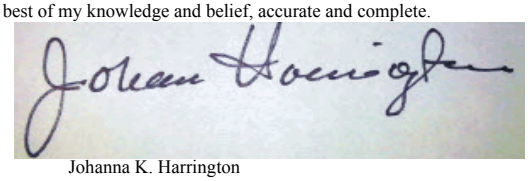
Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methylene Chloride

15F0851-01[MW-8], 15F0851-02[ATC-4], 15F0851-03[MW-6], 15F0851-04[MW-7], 15F0851-05[ATC-1], B124760-BLK1, B124760-BS1, B124760-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.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-8 | Sampled: 6/15/2015 13:28

Sample ID: 15F0851-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	6/24/15	6/24/15 15:21	CMR
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-8 | Sampled: 6/15/2015 13:28

Sample ID: 15F0851-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Methylene Chloride	ND	5.0	µg/L	1	V-05	SW-846 8260C	6/24/15	6/24/15 15:21	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:21	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	99.7	70-130		6/24/15	15:21
Toluene-d8	97.2	70-130		6/24/15	15:21
4-Bromofluorobenzene	91.0	70-130		6/24/15	15:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: ATC-4 | Sampled: 6/15/2015 14:00

Sample ID: 15F0851-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	6/24/15	6/24/15 15:49	CMR
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: ATC-4 | Sampled: 6/15/2015 14:00

Sample ID: 15F0851-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Methylene Chloride	ND	5.0	µg/L	1	V-05	SW-846 8260C	6/24/15	6/24/15 15:49	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 15:49	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	101	70-130		6/24/15	15:49
Toluene-d8	100	70-130		6/24/15	15:49
4-Bromofluorobenzene	90.9	70-130		6/24/15	15:49

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-6 | Sampled: 6/15/2015 14:50

Sample ID: 15F0851-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	6/24/15	6/24/15 16:17	CMR
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-6 | Sampled: 6/15/2015 14:50

Sample ID: 15F0851-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Methylene Chloride	ND	5.0	µg/L	1	V-05	SW-846 8260C	6/24/15	6/24/15 16:17	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:17	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	103	70-130		6/24/15	16:17
Toluene-d8	98.6	70-130		6/24/15	16:17
4-Bromofluorobenzene	91.7	70-130		6/24/15	16:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-7 | Sampled: 6/15/2015 15:35

Sample ID: 15F0851-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	6/24/15	6/24/15 16:46	CMR
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: MW-7 | Sampled: 6/15/2015 15:35

Sample ID: 15F0851-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Methylene Chloride	ND	5.0	µg/L	1	V-05	SW-846 8260C	6/24/15	6/24/15 16:46	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 16:46	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	103	70-130		6/24/15	16:46
Toluene-d8	99.4	70-130		6/24/15	16:46
4-Bromofluorobenzene	91.6	70-130		6/24/15	16:46

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: ATC-1 | Sampled: 6/15/2015 16:15

Sample ID: 15F0851-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	6/24/15	6/24/15 17:15	CMR
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Chloromethane	4.1	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Springfield St., Providence, RI | Sample Description: | Work Order: 15F0851

Date Received: 6/17/2015

Field Sample #: ATC-1 | Sampled: 6/15/2015 16:15

Sample ID: 15F0851-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Methylene Chloride	ND	5.0	µg/L	1	V-05	SW-846 8260C	6/24/15	6/24/15 17:15	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/24/15	6/24/15 17:15	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		6/24/15 17:15
Toluene-d8	98.4	70-130		6/24/15 17:15
4-Bromofluorobenzene	91.5	70-130		6/24/15 17:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15F0851-01 [MW-8]	B124760	5	5.00	06/24/15
15F0851-02 [ATC-4]	B124760	5	5.00	06/24/15
15F0851-03 [MW-6]	B124760	5	5.00	06/24/15
15F0851-04 [MW-7]	B124760	5	5.00	06/24/15
15F0851-05 [ATC-1]	B124760	5	5.00	06/24/15

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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 B124760 - SW-846 5030B										
Blank (B124760-BLK1)				Prepared & Analyzed: 06/24/15						
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							R-05
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	4.0	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							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
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							

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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 B124760 - SW-846 5030B												
Blank (B124760-BLK1)				Prepared & Analyzed: 06/24/15								
Methylene Chloride	ND	5.0	µg/L								V-05	
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	*25.2*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.4		70-130				
Surrogate: 4-Bromofluorobenzene	*22.9*		µg/L	25.0		91.8		70-130				
LCS (B124760-BS1)				Prepared & Analyzed: 06/24/15								
Acetone	138	50	µg/L	100		138		70-160				†
Acrylonitrile	9.47	5.0	µg/L	10.0		94.7		70-130				
tert-Amyl Methyl Ether (TAME)	9.11	0.50	µg/L	10.0		91.1		70-130				
Benzene	9.75	1.0	µg/L	10.0		97.5		70-130				
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromochloromethane	10.2	1.0	µg/L	10.0		102		70-130				
Bromodichloromethane	9.41	0.50	µg/L	10.0		94.1		70-130				
Bromoform	10.3	1.0	µg/L	10.0		103		70-130				
Bromomethane	2.80	2.0	µg/L	10.0		**28.0**	*	40-160			L-07A	†
2-Butanone (MEK)	107	20	µg/L	100		107		40-160				†
tert-Butyl Alcohol (TBA)	93.5	20	µg/L	100		93.5		40-160				†
n-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130				
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.49	0.50	µg/L	10.0		94.9		70-130				
Carbon Disulfide	10.5	4.0	µg/L	10.0		105		70-130				
Carbon Tetrachloride	9.53	5.0	µg/L	10.0		95.3		70-130				
Chlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
Chlorodibromomethane	8.96	0.50	µg/L	10.0		89.6		70-130				
Chloroethane	12.8	2.0	µg/L	10.0		128		70-130				
Chloroform	9.12	2.0	µg/L	10.0		91.2		70-130				
Chloromethane	7.90	2.0	µg/L	10.0		79.0		40-160				†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104		70-130				

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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 B124760 - SW-846 5030B											
LCS (B124760-BS1)				Prepared & Analyzed: 06/24/15							
4-Chlorotoluene	9.58	1.0	µg/L	10.0		95.8	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.0		104	70-130				
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130				
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130				
trans-1,4-Dichloro-2-butene	9.84	2.0	µg/L	10.0		98.4	70-130				
Dichlorodifluoromethane (Freon 12)	6.28	2.0	µg/L	10.0		62.8	40-160				†
1,1-Dichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130				
1,2-Dichloroethane	9.88	1.0	µg/L	10.0		98.8	70-130				
1,1-Dichloroethylene	9.14	1.0	µg/L	10.0		91.4	70-130				
cis-1,2-Dichloroethylene	9.47	1.0	µg/L	10.0		94.7	70-130				
trans-1,2-Dichloroethylene	9.35	1.0	µg/L	10.0		93.5	70-130				
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130				
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130				
2,2-Dichloropropane	9.88	1.0	µg/L	10.0		98.8	40-130				†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130				
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130				
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130				
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130				
Diisopropyl Ether (DIPE)	8.83	0.50	µg/L	10.0		88.3	70-130				
1,4-Dioxane	98.7	50	µg/L	100		98.7	40-130				†
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130				
2-Hexanone (MBK)	98.0	10	µg/L	100		98.0	70-160				†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130				
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130				
Methyl tert-Butyl Ether (MTBE)	9.34	1.0	µg/L	10.0		93.4	70-130				
Methylene Chloride	7.09	5.0	µg/L	10.0		70.9	70-130			V-05	
4-Methyl-2-pentanone (MIBK)	91.7	10	µg/L	100		91.7	70-160				†
Naphthalene	11.4	2.0	µg/L	10.0		114	40-130				†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Styrene	10.0	1.0	µg/L	10.0		100	70-130				
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130				
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Tetrahydrofuran	10.0	10	µg/L	10.0		100	70-130				
Toluene	10.0	1.0	µg/L	10.0		100	70-130				
1,2,3-Trichlorobenzene	11.2	5.0	µg/L	10.0		112	70-130				
1,2,4-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130				
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,1,1-Trichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130				
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130				
Trichloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130				
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130				
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,3,5-Trimethylbenzene	9.40	1.0	µg/L	10.0		94.0	70-130				
Vinyl Chloride	10.4	2.0	µg/L	10.0		104	40-160				†

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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 B124760 - SW-846 5030B												
LCS (B124760-BS1)				Prepared & Analyzed: 06/24/15								
m+p Xylene	20.0	2.0	µg/L	20.0		100	70-130					
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130					
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.4	70-130					
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.2	70-130					
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		93.9	70-130					
LCS Dup (B124760-BSD1)				Prepared & Analyzed: 06/24/15								
Acetone	150	50	µg/L	100		150	70-160	8.08		25		†
Acrylonitrile	9.83	5.0	µg/L	10.0		98.3	70-130	3.73		25		
tert-Amyl Methyl Ether (TAME)	9.51	0.50	µg/L	10.0		95.1	70-130	4.30		25		
Benzene	10.0	1.0	µg/L	10.0		100	70-130	2.83		25		
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130	1.58		25		
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130	0.980		25		
Bromodichloromethane	9.47	0.50	µg/L	10.0		94.7	70-130	0.636		25		
Bromoform	10.9	1.0	µg/L	10.0		109	70-130	5.00		25		
Bromomethane	5.12	2.0	µg/L	10.0		51.2	40-160	**58.6**	*	25	R-05	†
2-Butanone (MEK)	116	20	µg/L	100		116	40-160	8.00		25		†
tert-Butyl Alcohol (TBA)	98.3	20	µg/L	100		98.3	40-160	4.99		25		†
n-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.00		25		
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	0.00		25		
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.903		25		
tert-Butyl Ethyl Ether (TBEE)	9.91	0.50	µg/L	10.0		99.1	70-130	4.33		25		
Carbon Disulfide	10.2	4.0	µg/L	10.0		102	70-130	2.99		25		
Carbon Tetrachloride	9.89	5.0	µg/L	10.0		98.9	70-130	3.71		25		
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	1.04		25		
Chlorodibromomethane	9.35	0.50	µg/L	10.0		93.5	70-130	4.26		25		
Chloroethane	13.0	2.0	µg/L	10.0		130	70-130	1.71		25		
Chloroform	9.38	2.0	µg/L	10.0		93.8	70-130	2.81		25		
Chloromethane	8.55	2.0	µg/L	10.0		85.5	40-160	7.90		25		†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	2.74		25		
4-Chlorotoluene	9.64	1.0	µg/L	10.0		96.4	70-130	0.624		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108	70-130	4.16		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	5.80		25		
Dibromomethane	10.7	1.0	µg/L	10.0		107	70-130	3.24		25		
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.184		25		
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.459		25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.552		25		
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130	6.20		25		
Dichlorodifluoromethane (Freon 12)	6.56	2.0	µg/L	10.0		65.6	40-160	4.36		25		†
1,1-Dichloroethane	9.72	1.0	µg/L	10.0		97.2	70-130	0.206		25		
1,2-Dichloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	0.303		25		
1,1-Dichloroethylene	9.13	1.0	µg/L	10.0		91.3	70-130	0.109		25		
cis-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130	4.34		25		
trans-1,2-Dichloroethylene	9.39	1.0	µg/L	10.0		93.9	70-130	0.427		25		
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130	4.06		25		
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130	0.200		25		
2,2-Dichloropropane	9.88	1.0	µg/L	10.0		98.8	40-130	0.00		25		†
1,1-Dichloropropene	10.9	2.0	µg/L	10.0		109	70-130	2.70		25		
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	1.59		25		
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130	2.27		25		
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130	7.24		25		
Diisopropyl Ether (DIPE)	9.19	0.50	µg/L	10.0		91.9	70-130	4.00		25		

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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 B124760 - SW-846 5030B											
LCS Dup (B124760-BSD1)				Prepared & Analyzed: 06/24/15							
1,4-Dioxane	111	50	µg/L	100		111	40-130	12.0	50		† ‡
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.388	25		
Hexachlorobutadiene	10.9	0.50	µg/L	10.0		109	70-130	0.369	25		
2-Hexanone (MBK)	102	10	µg/L	100		102	70-160	4.21	25		†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130	2.49	25		
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130	1.93	25		
Methyl tert-Butyl Ether (MTBE)	9.65	1.0	µg/L	10.0		96.5	70-130	3.26	25		
Methylene Chloride	7.73	5.0	µg/L	10.0		77.3	70-130	8.64	25	V-05	
4-Methyl-2-pentanone (MIBK)	95.4	10	µg/L	100		95.4	70-160	3.99	25		†
Naphthalene	11.8	2.0	µg/L	10.0		118	40-130	3.89	25		†
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130	1.79	25		
Styrene	10.1	1.0	µg/L	10.0		101	70-130	0.696	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104	70-130	2.09	25		
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130	1.47	25		
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.14	25		
Tetrahydrofuran	10.8	10	µg/L	10.0		108	70-130	7.41	25		
Toluene	9.96	1.0	µg/L	10.0		99.6	70-130	0.401	25		
1,2,3-Trichlorobenzene	11.3	5.0	µg/L	10.0		113	70-130	0.713	25		
1,2,4-Trichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130	2.92	25		
1,3,5-Trichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.39	25		
1,1,1-Trichloroethane	9.81	1.0	µg/L	10.0		98.1	70-130	4.48	25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.86	25		
Trichloroethylene	9.91	1.0	µg/L	10.0		99.1	70-130	0.302	25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110	70-130	3.32	25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109	70-130	2.89	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	2.95	25		
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.562	25		
1,3,5-Trimethylbenzene	9.36	1.0	µg/L	10.0		93.6	70-130	0.426	25		
Vinyl Chloride	9.34	2.0	µg/L	10.0		93.4	40-160	10.6	25		†
m+p Xylene	20.3	2.0	µg/L	20.0		101	70-130	1.29	25		
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	1.08	25		
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.9	70-130				
Surrogate: 4-Bromofluorobenzene	*23.4*		µg/L	25.0		93.6	70-130				

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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.
	No results have been blank subtracted unless specified in the case narrative section.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
m+p Xylene	CT,NY,ME,NH,VA
o-Xylene	CT,NY,ME,NH,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

CHAIN OF CUSTODY RECORD

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Rev. 04.05.12

15F0851

Company Name: ARCADIS
Address: 300 Metro Center Blvd.
Warwick, RI
Attention: Donna Pallister
Project Location: Springfield St. Providence, RI
Sampled By: AD

Telephone: 401-738-3807
Project #: WK012152.0010
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #:
Email:
Format: ○ PDF ○ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs - 8260B
01	MW-8	6/15/15	1328		X	GW	C	3	H	V	X
02	ATC-4		1700		X	GW	C	3	H	V	X
03	MW-6		1450		X	GW	C	3	H	V	X
04	MW-7		1535		X	GW	C	3	H	V	X
05	ATC-1		1615		X	GW	C	3	H	V	X

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

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

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) (to ref)	6/15/15	Date/Time: 1700
Received by: (signature)	6/16/15	Date/Time: 1045
Relinquished by: (signature)	6/17/15	Date/Time: 1230
Received by: (signature)	6/17/15	Date/Time: 1230

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

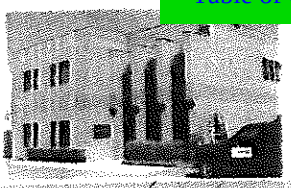
TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Arcadis **RECEIVED BY:** JDL **DATE:** 6/17/15

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 4.6

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: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

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		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	15	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 15 # Methanol _____ **Time and Date Frozen:**

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

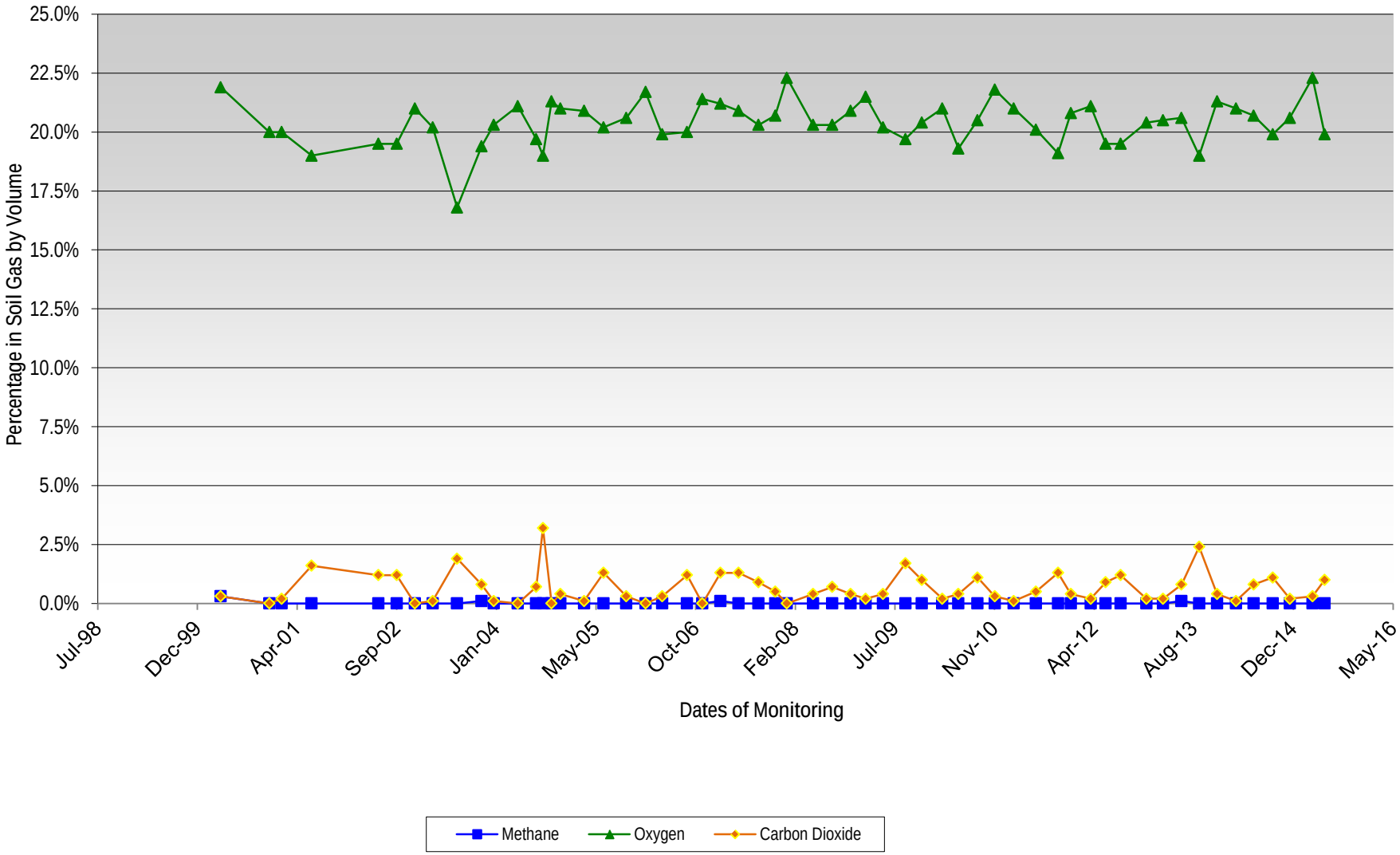
Who notified of False statements? **Date/Time:**

Log-In Technician Initials: JDL **Date/Time:** 6/17/15 1230

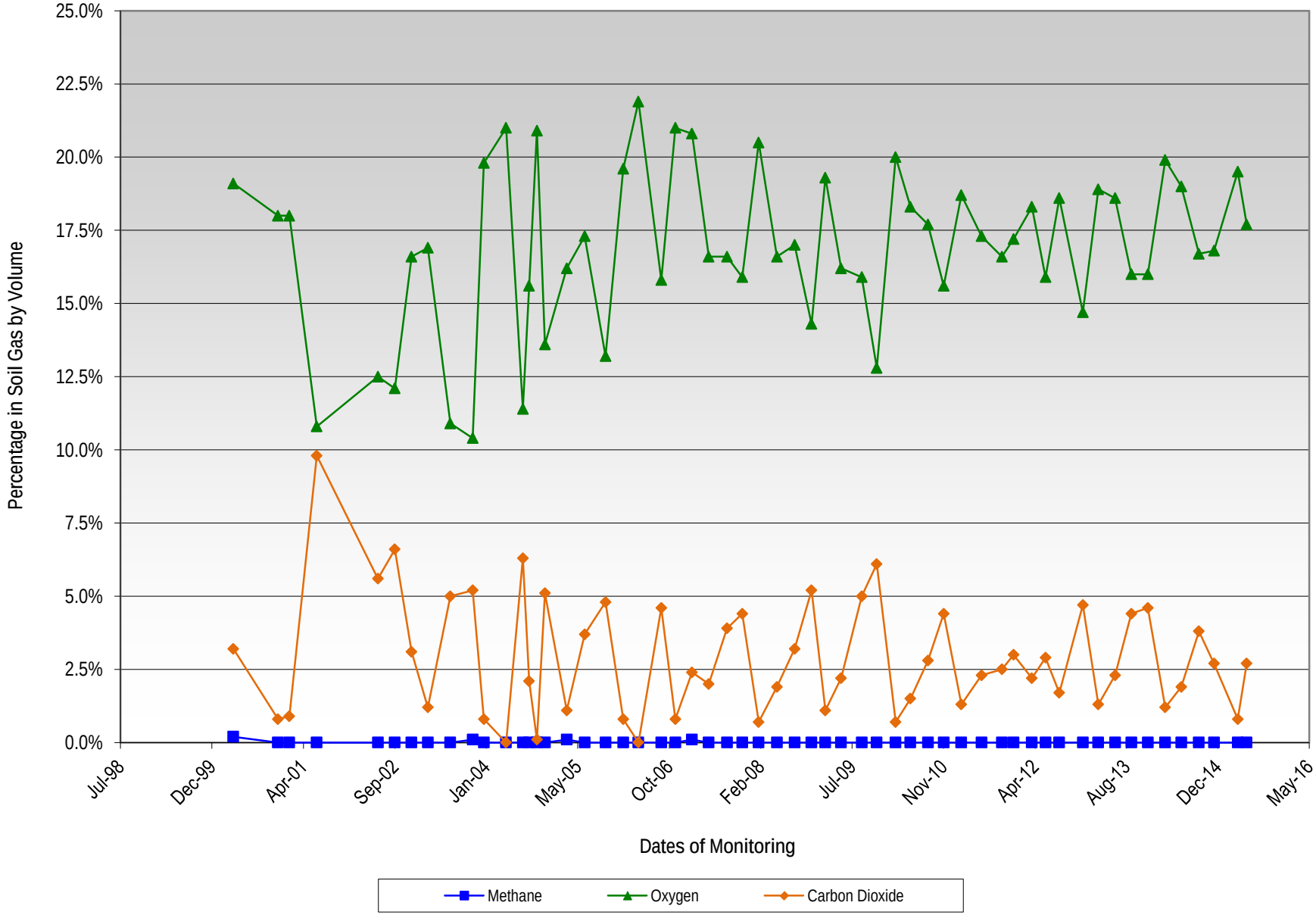
Attachment C

Soil Gas Parameter Graphs

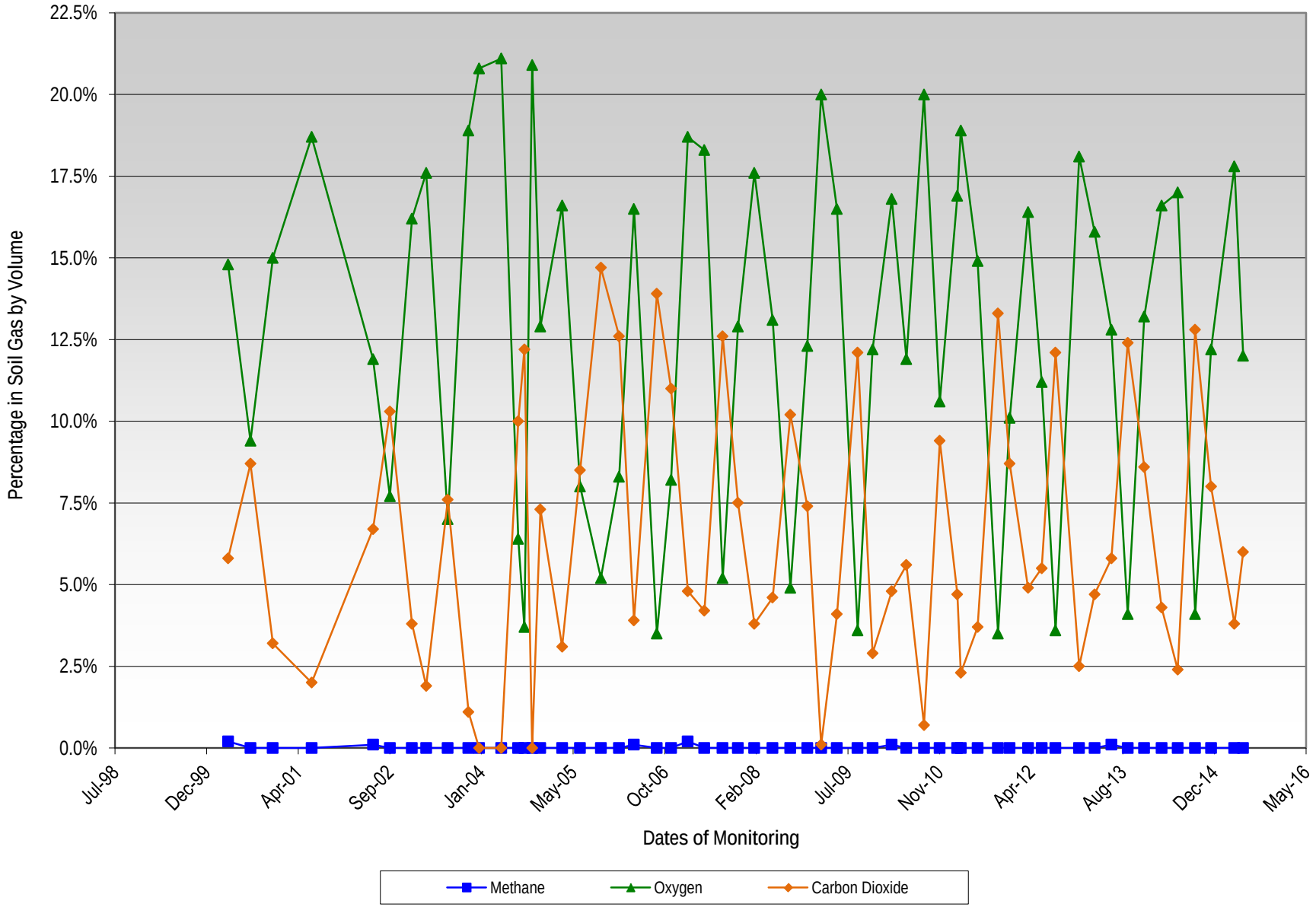
Soil Gas Well EPL1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



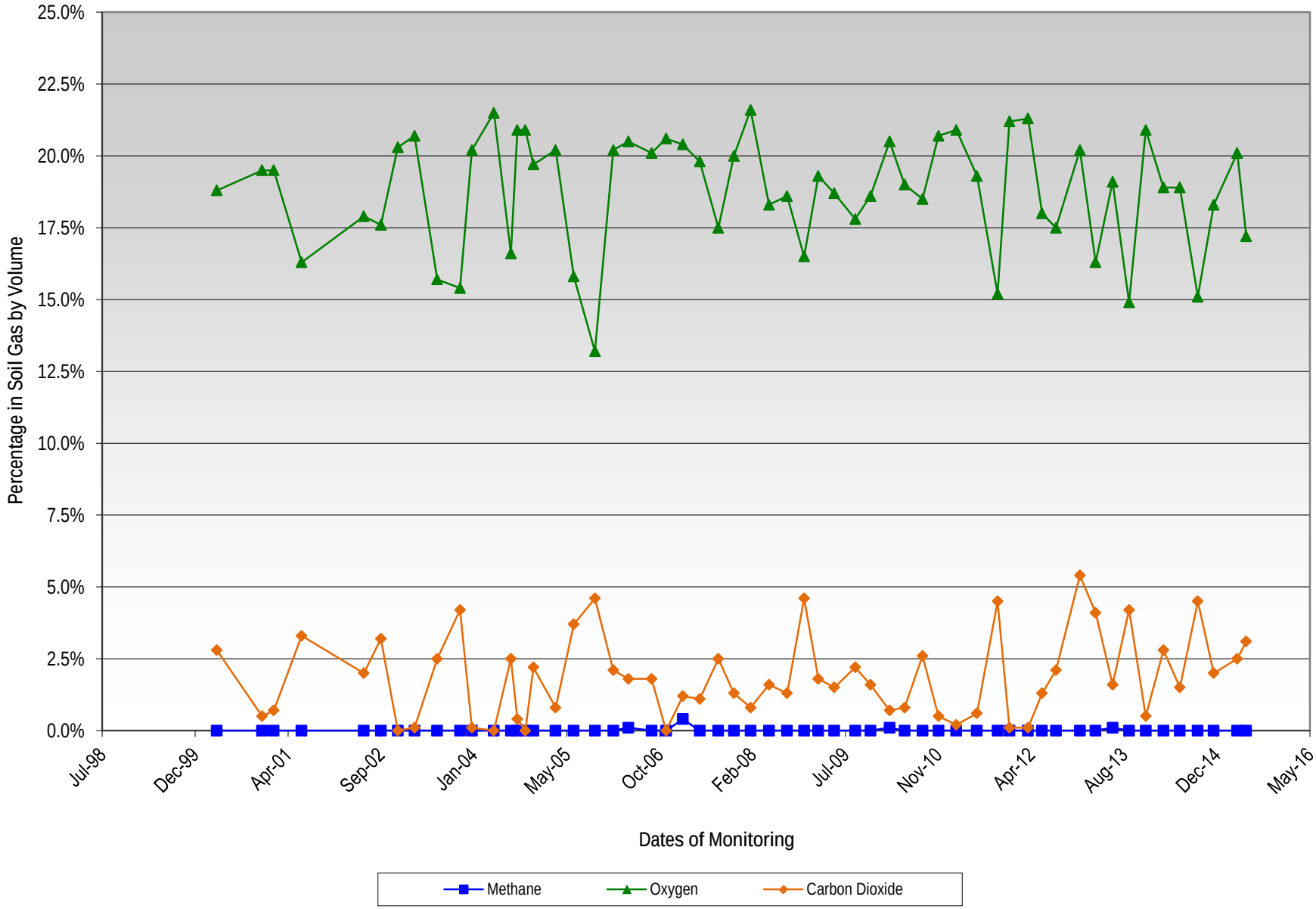
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



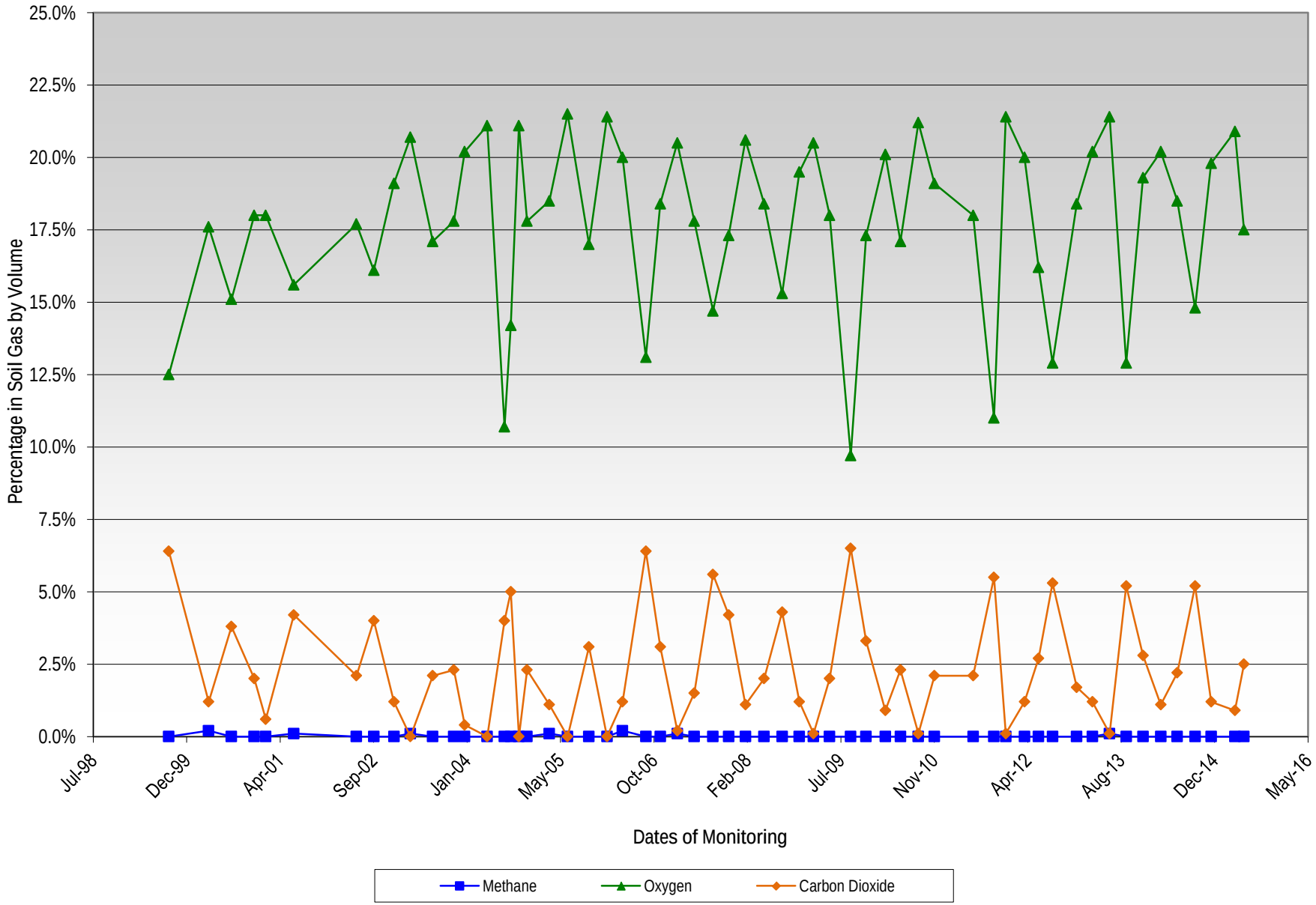
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



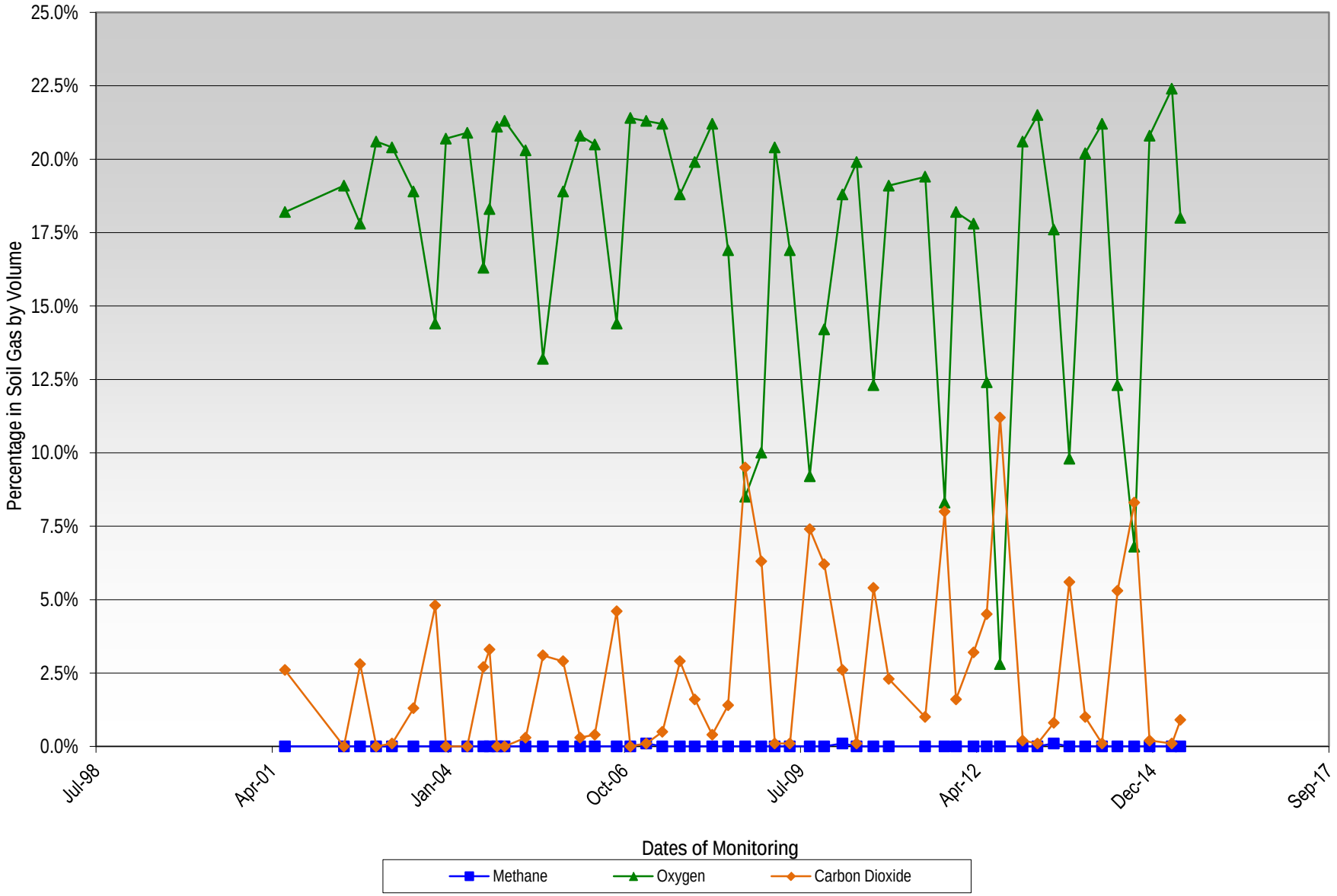
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB1
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 MPL 7
Fluctuation in Methane, Oxygen, Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island