QUARTERLY MONITORING REPORT
Springfield Street School Complex
Providence, Rhode Island
November 2008 Monitoring Round

Project No. 081-12152-05

Prepared for
Providence School Department
797 Westminster Street
Providence, RI 02903

Prepared by
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LFR an ARCADIS company

December 23, 2008 081-12152-05

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

Subject: Quarterly Monitoring for Springfield Street School Complex, 50 Springfield Street, Providence, RI – November 2008 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring for soil gas, indoor air and system monitoring was conducted during the last two weeks of November 25, 2008. 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 Appendix A. Results of monitoring are provided in the following sections and in the attachments.

COVER MONITORING

LFR conducted a visual survey of the site on November 20, 2008 for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. LFR did not observe any areas where the orange indicator barrier was visible during this monitoring event. Some areas with small holes or poor grass cover were observed during the previous inspection, and we observed that these areas have since been repaired. A new hole was observed during the November inspection; the hole was located adjacent to the concrete pad in the courtyard area on the north side of the middle school, adjacent to the boiler room. The hole has been repaired by the Providence School Department. Photographs of the hole before and after the repair are included in Appendix D.

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on November 20, 2008. The elementary school and front middle school blowers were operating normally.

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Upon inspection of the rear blower shed at the Middle School, we discovered that fine carbon dust had escaped from one of the carbon canisters and covered materials in the shed. We did not observe any evidence of the dust outside of the shed. The blower was operating normally. The source of the carbon appeared to be leak or loose fitting on one of the carbon vessels. After consultation with Mr. Jeff Crawford of RIDEM, we determined that the blower would remain on, and repair work would be conducted during the winter school vacation to minimize any potential for students to be exposed to the carbon dust.

On December 22, 2008, LFR personnel cleaned the shed and equipment and performed leak testing on the carbon vessels. The apparent source of the carbon dust was determined to be a loose fitting on the top of the carbon vessel. This situation was corrected. The system was reinspected on December 23, and no evidence of carbon dust release was observed. An additional inspection will be performed before school resumes on January 5, 2009.

Influent and effluent air from the two blowers at the elementary school and the two blowers at the middle school was monitored. Samples of influent and effluent gas were collected in Tedlar bags at each location and screened for methane, carbon dioxide, carbon monoxide, and hydrogen sulfide using a Landtec GEM 2000 Plus, and for volatile organic compounds (VOC) using a MiniRae 2000. Results are provided in Table 1.

Carbon monoxide concentrations in the subslab ventilation system samples were all measured as zero during this monitoring event. Hydrogen sulfide readings at the elementary school ranged from 2 to 4 parts per million (ppm), and hydrogen sulfide readings at the middle school ranged from 3 to 6 ppm. Organic vapor readings at the elementary school ranged from 0.1 to 0.6 ppm, and organic vapor readings at the middle school were 0.1 ppm throughout. Carbon dioxide readings at both the elementary school and middle school ranged from 0.3 to 0.5 percent. Methane was measured at 0.0 to 0.2 % LEL. Methane and hydrogen sulfide readings at all locations were observed to be biased high during this round of monitoring, which is believed to be due to the meter calibration. The only parameter which was detected at a concentration in excess of the RAWP Action Levels was carbon dioxide.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on November 26, 2008 using a Landtec Gem 2000 Plus landfill gas monitor (methane), a RAE 4-gas meter (hydrogen sulfide, oxygen), a Mini Rae photoionization detector (organic vapors), and a Fluke 975 Airmeter (carbon dioxide, carbon monoxide). Both schools were occupied at the time of the monitoring. Results of monitoring are provided in the Table 2. Carbon monoxide and organic vapors were not detected during the indoor air monitoring.

Carbon dioxide measurements were made with a Fluke 975 Airmeter indoor air quality meter which provides a lower detection limit than the Landtec Gem 2000 plus which has been used to measure carbon dioxide concentrations in the past. The Fluke 975 has a range of 0 to 5,000 ppm, with a resolution of 1 ppm. The Landtec Gem 2000 Plus has a range of 0 to 100 percent, with a resolution of 0.1 percent (1000 ppm).

Carbon dioxide concentrations ranged from 531 to 1190 ppm in the elementary school, and from 530 to 1747 ppm at the middle school. The maximum concentration detected at the elementary school was measured in the cafeteria, which was fully occupied at the time the measurement was made. The maximum concentration detected in the middle school was in the hallway just outside the cafeteria, which was also fully occupied at the time the readings were collected. All concentrations were well below the Occupational Safety and Health Administration (OSHA) Permissable Exposure Limit (PEL) of 5,000 ppm for carbon dioxide.

Carbon dioxide is a colorless, odorless gas which is a trace constituent of our atmosphere. It is emitted by people and other mammals during respiration, by combustion of fossil fuels, and through many other natural and manmade sources. The US Department of Energy's Carbon Dioxide Information Analysis Center (CDIAC) reports that the average concentration of carbon dioxide in the atmosphere is 377 ppm. The actual concentrations are expected to vary locally based on the proximity of carbon dioxide sources to the measuring site, meteorological conditions, and other factors.

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 affects. 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 average concentrations measured inside the site buildings were below these levels.

Concentrations of methane, carbon monoxide, hydrogen sulfide and organic vapors were below the RAWP Action Levels at all locations in both buildings.

The control panels for the methane monitors at both schools were inspected on November 12, 2008. The methane monitor control panels had stickers that indicated the monitors were last calibrated by Diamond Technical Services personnel on November 12, 2008.

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

Three of five groundwater monitoring wells were sampled by LFR on August 26, 2008. Two monitoring wells, ATC-2 and ATC-3, were not able to be sampled because they were dry or obstructed on the day of sampling. Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from each well. Depth to groundwater ranged from 13.32 to 18.31 feet below the ground surface. Groundwater samples were collected in laboratory prepared sample jars and delivered under chain-of-custody protocol to Contest Laboratory in East Longmeadow, Massachusetts for analysis for volatile organic compounds by EPA method 8260. The laboratory report is provided as Attachment B. Results of analysis of groundwater samples are summarized in Table 3.

Laboratory analysis detected a trace concentration of 1,4-dichlorobenzene in the sample collected from ATC-4. There is no RIDEM GB Groundwater Objective established for this compound. No other target analytes were detected in the three groundwater samples.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 28 locations on November 26, 2008. 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 & Extraction Monitor and a MiniRae Photoionization Detector (PID).

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

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4.

Methane and hydrogen sulfide were not detected in any of the soil gas wells during this round of sampling. Carbon monoxide was detected at concentrations below the action level in 18 wells.

Carbon dioxide was detected in all 28 locations with detectable concentrations ranging from 0.2% to 9.9%. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 28 readings exceeded the action level. 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. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for seven representative wells are presented in Attachment C. The maximum concentration of carbon dioxide detected during this round of monitoring was 9.9%, compared with a maximum detected concentration in August of 2008 of 11.8%. The highest concentrations of carbon dioxide were found in wells MPL-6 and MPL-7, located on the

northern end of the property adjacent to the parking lot. Carbon dioxide concentrations are expected to be higher here due to the heat generated by the sun on the pavement, and the pavement acting as a barrier to the exchange of soil gas with the atmosphere.

Concentrations detected during this round of monitoring appear to be consistent with the patterns of higher carbon dioxide concentrations in the summer and fall, and lower carbon dioxide concentrations in the winter and spring.

Soil Gas Laboratory Results

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

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

CONCLUSIONS

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

A release of carbon dust from the carbon treatment vessel to the interior of the equipment shed has been cleaned and the apparent source of the release, a loose fitting on the vessel, has been corrected.

Inspection of the cap revealed a hole adjacent to the Middle School boiler room; the hole has been repaired as documented in the photographs included with this report.

This report is subject to the limitations contained in Attachment A.

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

Sincerely,

Donna Holden Pallister, P.E., L.S.P.
Senior Engineer

Jacob L. Lamarine
Staff II Scientist

cc: A. Sepe, City of Providence
S. Tremblay, Providence School Department
Providence Public Building Authority

TABLES

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
November 20, 2008

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	21.3	0	2	0.1
Elementary School inlet 2	0.1	0.3	21.1	0	2	0.1
Elementary School Outlet	0.0	0.5	21.2	0	4	0.6
Middle School front shed inlet	0.1	0.5	20.7	0	6	0.1
Middle School front shed after 2nd carbon	0.1	0.3	20.6	0	5	0.1
Middle School back shed inlet	0.2	0.3	20.4	0	3	0.1
Middle School back shed after 2nd carbon	0.1	0.3	20.5	0	3	0.1
Remedial Action Work Plan Action Levels	**0.5**	**1,000 ppm (0.1%)**	**NA**	**9 ppm**	**10 ppm**	**5 ppm**

Measurements made with: Landtec GEM 2000 Plus, MiniRae PID, RAE 4 gas meter, Fluke 975 Airmeter

Sampling date: November 20, 2008

Measured by: Chris Dentch

Table 2
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
November 20, 2008

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Front office	0.1	623	21.0	0	7	0.0
E.S. Elevator	0.1	564	21.0	0	3	0.0
E.S. Faculty Work Room	0.0	531	21.1	0	4	0.0
E.S. Gym	0.1	646	21.1	0	5	0.0
E.S. Hallway Outside Gym	0.1	470	21.1	0	4	0.0
E.S. Library	0.1	587	20.9	0	4	0.0
E.S. Elect. Rm. in Mech.Rm.	0.1	559	21.1	0	5	0.0
E.S. Stairway Stair B	0.1	558	21.1	0	5	0.0
E.S. Room 107	0.1	538	21.1	0	3	0.0
E.S. Cafeteria	0.1	1190	21.1	0	4	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
November 20, 2008

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Office	0.1	608	20.6	0	7	0.0
M.S. Elevator	0.1	615	20.6	0	5	0.0
M.S. Music Room (now an art room)	0.1	620	20.6	0	3	0.0
M.S. Stairway near Elem. School	0.1	682	20.6	0	3	0.0
M.S. Near sensor #16 in hall outside cafeteria	0.1	1747	20.8	0	3	0.0
M.S. Near Sensor in cafeteria (GS-19)	0.1	782	20.4	0	5	0.0
M.S. Library	0.3	757	20.5	0	4	0.0
M.S. GS-03	0.1	632	20.5	0	3	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
November 20, 2008

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Faculty Workroom 1st Floor	0.1	728	20.6	0	5	0.0
M.S. Front Hall near sensor #4	0.1	617	20.5	0	5	0.0
M.S. Hallway across from elevator near sensor #9	0.1	662	20.5	0	5	0.0
M.S. Stairway/ Hartford Ave. near sensor #07	0.1	530	20.5	0	4	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Notes:

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

Measurements made with: Landtec GEM 2000 Plus, MiniRae PID, Fluke 975 Airmeter

PPM = Parts per million

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

Monitoring Wells	Detected Compounds	Sampling Dates and Results in µg/L																												RIDEM GB Groundwater Objective
		2/28/2001	7/20/2001	*9- 12/2001	8/1/2002	8/28/2002	12/19/2002	3/18/2003	7/17/2003	11/5/2003	1/22/2004	5/21/2004	8/17/2004	12/2/2004	4/6/2005	7/27/2005	10/27&28/ 2005	2/2/2006	4/27/2006	8/31/2006	11/15/2006	3/27/2007	5/21/2007	8/20/2007	11/13/2007	2/12/2008	5/21/2008	8/26/2008	11/18/2008	
ATC-1																														
	Benzene	6.1	ND	18.9	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
	n-butylbenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Ethylbenzene	4.5	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
	Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	n-Propylbenzene	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540
	Toluene	2.5	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
	1,2,4-Trimethylbenzene	2.2	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,3,5-Trimethylbenzene	3.4	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ATC-2																														
	Chloroform	0.9	ND	ND	1.0	ND	ND	ND	ND	ND	NS	1.1	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NA
ATC-3																														
	Toluene	ND	ND	ND	ND	NS	ND	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND	3.0	ND	4.5	13.1	ND	2.3	1.3	ND	ND	NS	NS	NS	1700
ATC-4																														
	Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
	Chlorobenzene	2.6	ND	57.3	2.7	5.18	ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.80	1.90	ND	ND	1.2	ND	70
	1,4-dichlorobenzene	4.2	ND	9.2	3.4	3.36	ND	ND	ND	ND	ND	0.80	1.6	2.1	ND	ND	ND	ND	ND	1.2	1.1	ND	1.2	2.1	2.1	ND	ND	2.1	1.4	NA
	MTBE	ND	ND	ND	ND	ND	ND	ND	1.19	9.55	1.06	2.90	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	1,2,4-Trimethylbenzene	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ATC-5																														
	MTBE	ND	ND	2.2	NS	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Sampled By:		ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	

*ATC Monitoring Report for September through December 2001 did not list date samples were collected.
ND is not detected above method detection limit
NS is not sampled
NA= No applicable standard published
MTBE is Methyl tert-Butyl Ether
µg/L = micrograms per liter

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
November 24 & 26, 2008

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	1.2	19.5	0	0	0.0
WB-2	0.0	0.7	20.9	0	0	0.1
WB-3	0.0	0.3	20.9	0	0	0.1
WB-4	0.0	0.2	20.9	0	0	0.0
WB-5	0.0	0.2	20.9	0	0	0.0
WB-6	0.0	0.3	20.9	0	0	0.0
WB-7	NS	NS	NS	NS	NS	NS
WB-8	0.0	0.3	20.9	1	0	0.0
WB-12	0.0	1.4	20.7	2	0	0.2
WB-13	0.0	2.1	17.4	4	0	0.1
WB-14	0.0	3.5	16.8	2	0	0.2
WB-15	0.0	6.3	10.0	2	0	0.2
EPL-1	0.0	0.4	20.9	0	0	0.1
EPL-2	0.0	0.8	20.4	0	0	0.1
EPL-3	0.0	1.6	18.7	3	0	0.1
EPL-4	0.0	5.2	14.3	3	0	0.1
EPL-5	0.0	6.2	11.0	3	0	0.1
ENE-1	0.0	0.3	20.9	0	0	0.1

Table18.7 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
November 24 & 26, 2008

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	2.1	18.7	3	0	0.1
MG2	0.0	4.6	16.5	3	0	0.1
MG3	0.0	2.5	18.9	4	0	0.0
MG4	0.0	2.3	19.0	3	0	0.0
MG5	0.0	1.9	19.3	4	0	0.0
MPL2	0.0	3.7	15.7	3	0	0.0
MPL3	0.0	8.4	12.6	3	0	0.0
MPL5	0.0	7.4	12.3	3	0	0.0
MPL6	0.0	9.9	6.4	3	0	0.3
MPL7	0.0	8.8	13.2	3	0	0.1
MPL8	0.0	4.9	15.9	3	0	0.2
Remedial Action Work Plan Action Levels	**0.5%**	**1,000 PPM**	**NA**	**9 PPM**	**10 PPM**	**5 PPM**

Sampled by: Chris Jamison

Weather Conditions: Sunny, Temperature 45-50 F

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

NS = Not sampled. Well WB-7 contained water to top of casing on day of sampling.

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

Parameter	OSHA PELs (PPBv)	Results of Analysis in parts per billion by volume (PPBv)															
		MPL-6								WB-2							
Date Collected:		**2/20/2007**	**5/17/2007**	**8/22/2007**	**11/14/2007**	**2/12/2008**	**5/21/2008**	**8/26/2008**	**11/26/2008**	**2/20/2007**	**5/17/2007**	**8/22/2007**	**11/14/2007**	**2/12/2008**	**5/21/2008**	**8/26/2008**	**11/26/2008**
Benzene	1,000	ND	0.36	0.74	ND	ND	0.51	1.0	0.3	ND	0.29	ND	ND	ND	0.21	0.46	0.23
Chloroethane	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND
Chloroform	50,000	ND	3.2	0.48	ND	ND	0.25	ND	0.10	ND	ND	ND	ND	ND	ND	ND	0.06
Chloromethane	100,000	ND	0.24	0.36	ND	ND	0.28	0.88	0.36	ND	0.11	ND	ND	ND	0.2	0.56	0.23
Dichlorodifluoromethane	1,000,000	ND	ND	0.28	ND	ND	0.53	0.78	0.31	ND	0.5	0.57	0.66	0.57	0.49	0.66	0.4
1,4-Dichlorobenzene	75,000	ND	ND	0.54	ND	ND	ND	0.65	ND	ND	0.16	0.37	ND	ND	ND	ND	ND
1,1-Dichoroethane	100,000	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND
1,1-Dichloroethylene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	200,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND
Ethylbenzene	100,000	ND	0.75	0.7	2.3	0.65	1.3	3.9	0.4	ND	0.55	0.46	3.2	0.78	0.41	1.3	0.33
Methylene Chloride	100,000	ND	ND	0.84	3.5	2	2.6	3.8	2.9	ND	0.53	0.5	4.9	2.5	3.4	3.0	2.3
Styrene	100,000	ND	1.6	1.5	1.4	ND	1.1	3.0	0.3	ND	1	1.1	0.69	ND	0.5	1.5	0.1
Tetrachloroethylene	100,000	ND	0.19	0.27	4.6	1.9	0.99	4.1	0.6	ND	0.16	0.81	3.2	2.7	0.64	1.6	0.8
Toluene	200,000	4.9	17	7.2	15	6.9	7.7	64	4	4.6	12	5.3	10	9.3	3	30	1.8
1,1,1-Trichloroethane	350,000	ND	ND	0.36	ND	ND	ND	0.27	ND	ND	ND	38	ND	1.3	ND	ND	ND
Trichloroethylene	100,000	ND	ND	0.25	0.53	1	4.1	3.6	1.7	ND	ND	4.6	ND	ND	3	2.8	0.97
Trichlorofluoromethane (Freon 11)	1,000,000	ND	ND	0.7	0.65	ND	0.27	1.3	0.5	ND	0.41	0.43	ND	ND	0.26	0.54	0.3
1,1,2-Trichloro-1,2,2,-Trifluoroethane	1,000,000	ND	ND	0.27	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	0.07
1,3,5-Trimethylbenzene	None	ND	0.12	ND	ND	ND	0.28	3.7	0.1	ND	ND	ND	0.57	ND	ND	0.67	0.2
1,2,4-Trimethylbenzene	None	ND	ND	0.44	1.6	1.3	1.3	9.1	0.3	ND	1	0.26	1.7	1.1	0.66	1.6	0.66
M/p-Xylene	100,000	1.4	3.1	2.4	5.3	2.2	3.7	11	1	1.2	2.5	1.8	10	2.6	1.3	3.7	0.94
o-Xylene	100,000	ND	0.61	0.68	1.8	0.69	1.6	5.0	0.4	ND	0.56	0.48	3.5	0.8	0.64	1.5	0.43

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

FIGURE

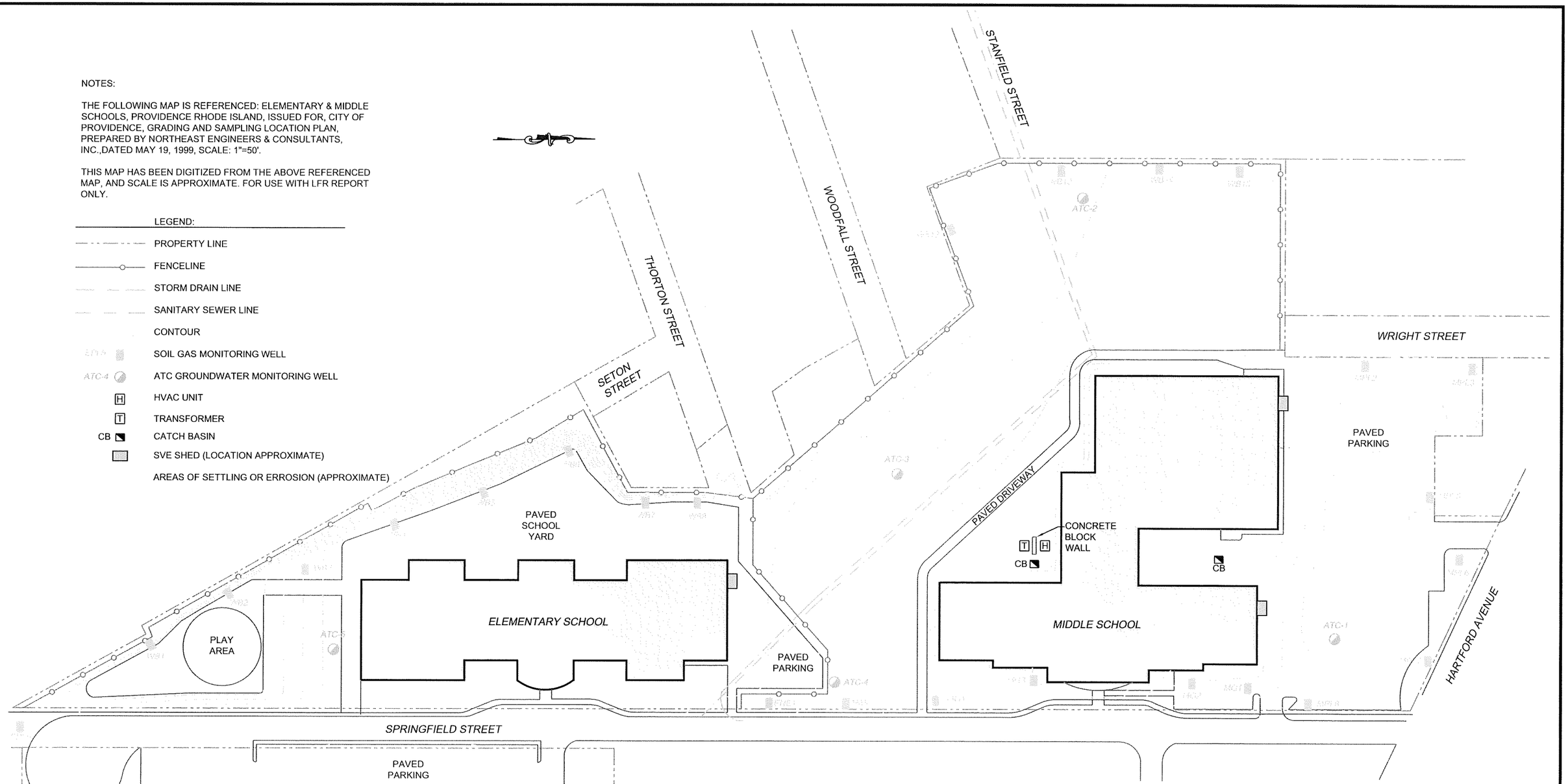
NOTES:

THE FOLLOWING MAP IS REFERENCED: ELEMENTARY & MIDDLE SCHOOLS, PROVIDENCE RHODE ISLAND, ISSUED FOR, CITY OF PROVIDENCE, GRADING AND SAMPLING LOCATION PLAN, PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.,DATED MAY 19, 1999, SCALE: 1"=50'.

THIS MAP HAS BEEN DIGITIZED FROM THE ABOVE REFERENCED MAP, AND SCALE IS APPROXIMATE. FOR USE WITH LFR REPORT ONLY.

LEGEND:

- PROPERTY LINE
- FENCELINE
- STORM DRAIN LINE
- SANITARY SEWER LINE
- CONTOUR
- SOIL GAS MONITORING WELL
- ATC GROUNDWATER MONITORING WELL
- H HVAC UNIT
- T TRANSFORMER
- CB CATCH BASIN
- SVE SHED (LOCATION APPROXIMATE)
- AREAS OF SETTLING OR ERROSION (APPROXIMATE)



100 0 100 200 300

SCALE: 1"=100'

LFR
250 Centerville Road
Building E, Suite 12
Warwick, Rhode Island 02886
Phone: (401) 738-3887
Fax: (401) 732-1686

DATE:	4-7-03
DRAWN BY:	PPH
REVIEWED BY:	DP
APPROVED BY:	DP
SCALE:	AS NOTED
FILE NO:	081-12027-00
JOB NO:	081-12027-00

TITLE:
SITE PLAN

LOCATION:
SPRINGFIELD STREET SCHOOL COMPLEX
SPRINGFIELD STREET
PROVIDENCE, RHODE ISLAND

FIGURE:
1

H:\CAD Files\081-Files\081-12027-00.dwg Apr 07,2003-9:41am

Attachment A

Limitations

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 LFR 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 LFR relied upon any information prepared by other parties not under contract to LFR, LFR 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 LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. LFR'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.

LFR, 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 Report for Soil Gas and Groundwater

con-test®
ANALYTICAL LABORATORY

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

REPORT DATE 11/26/2008

LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-21552
JOB NUMBER: 081-12152-00

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report. Results are based on samples as submitted to the laboratory and relate only to the items collected and tested.

PROJECT LOCATION: PROVIDENCE, RI/SPRINGFIELD ST.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
ATC-1	08B47181	WATER OTHE	Not Specified	8260 water	
ATC-4	08B47179	WATER OTHE	Not Specified	8260 water	
ATC-5	08B47180	WATER OTHE	Not Specified	8260 water	
TRIP BLANK	08B47182	WATER OTHE	Not Specified	8260 water	

Comments :

LIMS BATCH NO. : LIMT-21552

In method 8260, the initial and/or continuing calibration did not meet method specifications. For all samples, 1,4-Dioxane was calibrated with a relative response factor <0.05.

In method 8260, any reported result for Tetrahydrofuran, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene in all samples is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260 for Bromomethane in all samples, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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.

Edward Denson 11/26/08

SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-1

Sample ID : 08B47181

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/21/08	LBD
Acrylonitrile	ug/l	ND	5.0		11/21/08	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Benzene	ug/l	ND	1.0		11/21/08	LBD
Bromobenzene	ug/l	ND	1.0		11/21/08	LBD
Bromochloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromodichloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromoform	ug/l	ND	1.0		11/21/08	LBD
Bromomethane	ug/l	ND	6.0		11/21/08	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/21/08	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/21/08	LBD
n-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Carbon Disulfide	ug/l	ND	4.0		11/21/08	LBD
Carbon Tetrachloride	ug/l	ND	1.0		11/21/08	LBD
Chlorobenzene	ug/l	ND	1.0		11/21/08	LBD
Chlorodibromomethane	ug/l	ND	0.5		11/21/08	LBD
Chloroethane	ug/l	ND	2.0		11/21/08	LBD
Chloroform	ug/l	ND	2.0		11/21/08	LBD
Chloromethane	ug/l	ND	2.0		11/21/08	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/21/08	LBD
1,2-Dibromoethane	ug/l	ND	0.50		11/21/08	LBD
Dibromomethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/21/08	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-1

Sample ID : 08B47181

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/21/08	LBD
2,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/21/08	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
Diethyl Ether	ug/l	ND	2.0		11/21/08	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/21/08	LBD
1,4-Dioxane	ug/l	ND	50.0		11/21/08	LBD
Ethyl Benzene	ug/l	ND	1.0		11/21/08	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/21/08	LBD
2-Hexanone	ug/l	ND	10.0		11/21/08	LBD
Isopropylbenzene	ug/l	ND	1.0		11/21/08	LBD
p-Isopropyltoluene	ug/l	ND	1.0		11/21/08	LBD
MTBE	ug/l	ND	1.0		11/21/08	LBD
Methylene Chloride	ug/l	ND	5.0		11/21/08	LBD
MIBK	ug/l	ND	10.0		11/21/08	LBD
Naphthalene	ug/l	ND	5.0		11/21/08	LBD
n-Propylbenzene	ug/l	ND	1.0		11/21/08	LBD
Styrene	ug/l	ND	1.0		11/21/08	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/21/08	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/21/08	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/21/08	LBD
Toluene	ug/l	ND	1.0		11/21/08	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/21/08	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/21/08	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
Trichloroethylene	ug/l	ND	1.0		11/21/08	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/21/08	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-1

Sample ID : 08B47181

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
Vinyl Chloride	ug/l	ND	2.0		11/21/08	LBD
m + p Xylene	ug/l	ND	2.0		11/21/08	LBD
o-Xylene	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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DONNA PALLISTER
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WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-4

Sample ID : 08B47179

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/21/08	LBD
Acrylonitrile	ug/l	ND	5.0		11/21/08	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Benzene	ug/l	ND	1.0		11/21/08	LBD
Bromobenzene	ug/l	ND	1.0		11/21/08	LBD
Bromochloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromodichloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromoform	ug/l	ND	1.0		11/21/08	LBD
Bromomethane	ug/l	ND	6.0		11/21/08	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/21/08	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/21/08	LBD
n-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Carbon Disulfide	ug/l	ND	4.0		11/21/08	LBD
Carbon Tetrachloride	ug/l	ND	1.0		11/21/08	LBD
Chlorobenzene	ug/l	ND	1.0		11/21/08	LBD
Chlorodibromomethane	ug/l	ND	0.5		11/21/08	LBD
Chloroethane	ug/l	ND	2.0		11/21/08	LBD
Chloroform	ug/l	ND	2.0		11/21/08	LBD
Chloromethane	ug/l	ND	2.0		11/21/08	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/21/08	LBD
1,2-Dibromoethane	ug/l	ND	0.50		11/21/08	LBD
Dibromomethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,4-Dichlorobenzene	ug/l	1.4	1.0		11/21/08	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/21/08	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-4

Sample ID : 08B47179

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/21/08	LBD
2,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/21/08	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
Diethyl Ether	ug/l	ND	2.0		11/21/08	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/21/08	LBD
1,4-Dioxane	ug/l	ND	50.0		11/21/08	LBD
Ethyl Benzene	ug/l	ND	1.0		11/21/08	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/21/08	LBD
2-Hexanone	ug/l	ND	10.0		11/21/08	LBD
Isopropylbenzene	ug/l	ND	1.0		11/21/08	LBD
p-Isopropyltoluene	ug/l	ND	1.0		11/21/08	LBD
MTBE	ug/l	ND	1.0		11/21/08	LBD
Methylene Chloride	ug/l	ND	5.0		11/21/08	LBD
MIBK	ug/l	ND	10.0		11/21/08	LBD
Naphthalene	ug/l	ND	5.0		11/21/08	LBD
n-Propylbenzene	ug/l	ND	1.0		11/21/08	LBD
Styrene	ug/l	ND	1.0		11/21/08	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/21/08	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/21/08	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/21/08	LBD
Toluene	ug/l	ND	1.0		11/21/08	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/21/08	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/21/08	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
Trichloroethylene	ug/l	ND	1.0		11/21/08	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/21/08	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

con-test®
ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-4

Sample ID : 08B47179

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
Vinyl Chloride	ug/l	ND	2.0		11/21/08	LBD
m + p Xylene	ug/l	ND	2.0		11/21/08	LBD
o-Xylene	ug/l	ND	1.0		11/21/08	LBD

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ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-5

Sample ID : 08B47180

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/21/08	LBD
Acrylonitrile	ug/l	ND	5.0		11/21/08	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Benzene	ug/l	ND	1.0		11/21/08	LBD
Bromobenzene	ug/l	ND	1.0		11/21/08	LBD
Bromochloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromodichloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromoform	ug/l	ND	1.0		11/21/08	LBD
Bromomethane	ug/l	ND	6.0		11/21/08	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/21/08	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/21/08	LBD
n-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Carbon Disulfide	ug/l	ND	4.0		11/21/08	LBD
Carbon Tetrachloride	ug/l	ND	1.0		11/21/08	LBD
Chlorobenzene	ug/l	ND	1.0		11/21/08	LBD
Chlorodibromomethane	ug/l	ND	0.5		11/21/08	LBD
Chloroethane	ug/l	ND	2.0		11/21/08	LBD
Chloroform	ug/l	ND	2.0		11/21/08	LBD
Chloromethane	ug/l	ND	2.0		11/21/08	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/21/08	LBD
1,2-Dibromoethane	ug/l	ND	0.50		11/21/08	LBD
Dibromomethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/21/08	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-5

Sample ID : 08B47180

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/21/08	LBD
2,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/21/08	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
Diethyl Ether	ug/l	ND	2.0		11/21/08	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/21/08	LBD
1,4-Dioxane	ug/l	ND	50.0		11/21/08	LBD
Ethyl Benzene	ug/l	ND	1.0		11/21/08	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/21/08	LBD
2-Hexanone	ug/l	ND	10.0		11/21/08	LBD
Isopropylbenzene	ug/l	ND	1.0		11/21/08	LBD
p-Isopropyltoluene	ug/l	ND	1.0		11/21/08	LBD
MTBE	ug/l	ND	1.0		11/21/08	LBD
Methylene Chloride	ug/l	ND	5.0		11/21/08	LBD
MIBK	ug/l	ND	10.0		11/21/08	LBD
Naphthalene	ug/l	ND	5.0		11/21/08	LBD
n-Propylbenzene	ug/l	ND	1.0		11/21/08	LBD
Styrene	ug/l	ND	1.0		11/21/08	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/21/08	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/21/08	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/21/08	LBD
Toluene	ug/l	ND	1.0		11/21/08	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/21/08	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/21/08	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
Trichloroethylene	ug/l	ND	1.0		11/21/08	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/21/08	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	1.0		11/21/08	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

con-test®
ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : ATC-5

Sample ID : 08B47180

‡Sampled : 11/18/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
Vinyl Chloride	ug/l	ND	2.0		11/21/08	LBD
m + p Xylene	ug/l	ND	2.0		11/21/08	LBD
o-Xylene	ug/l	ND	1.0		11/21/08	LBD

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/26/2008

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : TRIP BLANK

Sample ID : 08B47182

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/21/08	LBD
Acrylonitrile	ug/l	ND	5.0		11/21/08	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Benzene	ug/l	ND	1.0		11/21/08	LBD
Bromobenzene	ug/l	ND	1.0		11/21/08	LBD
Bromochloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromodichloromethane	ug/l	ND	1.0		11/21/08	LBD
Bromoform	ug/l	ND	1.0		11/21/08	LBD
Bromomethane	ug/l	ND	6.0		11/21/08	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/21/08	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/21/08	LBD
n-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylbenzene	ug/l	ND	1.0		11/21/08	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		11/21/08	LBD
Carbon Disulfide	ug/l	ND	4.0		11/21/08	LBD
Carbon Tetrachloride	ug/l	ND	1.0		11/21/08	LBD
Chlorobenzene	ug/l	ND	1.0		11/21/08	LBD
Chlorodibromomethane	ug/l	ND	0.5		11/21/08	LBD
Chloroethane	ug/l	ND	2.0		11/21/08	LBD
Chloroform	ug/l	ND	2.0		11/21/08	LBD
Chloromethane	ug/l	ND	2.0		11/21/08	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/21/08	LBD
1,2-Dibromoethane	ug/l	ND	0.50		11/21/08	LBD
Dibromomethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/21/08	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/21/08	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : TRIP BLANK

Sample ID : 08B47182

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/21/08	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/21/08	LBD
2,2-Dichloropropane	ug/l	ND	1.0		11/21/08	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/21/08	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		11/21/08	LBD
Diethyl Ether	ug/l	ND	2.0		11/21/08	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/21/08	LBD
1,4-Dioxane	ug/l	ND	50.0		11/21/08	LBD
Ethyl Benzene	ug/l	ND	1.0		11/21/08	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/21/08	LBD
2-Hexanone	ug/l	ND	10.0		11/21/08	LBD
Isopropylbenzene	ug/l	ND	1.0		11/21/08	LBD
p-Isopropyltoluene	ug/l	ND	1.0		11/21/08	LBD
MTBE	ug/l	ND	1.0		11/21/08	LBD
Methylene Chloride	ug/l	ND	5.0		11/21/08	LBD
MIBK	ug/l	ND	10.0		11/21/08	LBD
Naphthalene	ug/l	ND	5.0		11/21/08	LBD
n-Propylbenzene	ug/l	ND	1.0		11/21/08	LBD
Styrene	ug/l	ND	1.0		11/21/08	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/21/08	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/21/08	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/21/08	LBD
Toluene	ug/l	ND	1.0		11/21/08	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/21/08	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/21/08	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/21/08	LBD
Trichloroethylene	ug/l	ND	1.0		11/21/08	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/21/08	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/21/08	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	1.0		11/21/08	LBD

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

Field Sample # : TRIP BLANK

Sample ID : 08B47182

‡Sampled : 11/19/2008
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		11/21/08	LBD
Vinyl Chloride	ug/l	ND	2.0		11/21/08	LBD
m + p Xylene	ug/l	ND	2.0		11/21/08	LBD
o-Xylene	ug/l	ND	1.0		11/21/08	LBD

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: PROVIDENCE, RI/SPRINGFIELD ST.
Date Received: 11/20/2008

LIMS-BAT #: LIMT-21552
Job Number: 081-12152-00

** END OF REPORT **

RL = Reporting Limit

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con-test®
ANALYTICAL LABORATORY

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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 11/26/2008 Lims Bat # : LIMT-21552

QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B47179					
	1,2-Dichloroethane-d4	Surrogate Recovery	106.1	%	70-130
	Toluene-d8	Surrogate Recovery	99.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	98.3	%	70-130
08B47180					
	1,2-Dichloroethane-d4	Surrogate Recovery	105.4	%	70-130
	Toluene-d8	Surrogate Recovery	102.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.2	%	70-130
08B47181					
	1,2-Dichloroethane-d4	Surrogate Recovery	108.9	%	70-130
	Toluene-d8	Surrogate Recovery	102.4	%	70-130
	Bromofluorobenzene	Surrogate Recovery	96.3	%	70-130
08B47182					
	1,2-Dichloroethane-d4	Surrogate Recovery	106.0	%	70-130
	Toluene-d8	Surrogate Recovery	101.0	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.1	%	70-130
BLANK-127032					
	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<1.0	ug/l	
	Carbon Tetrachloride	Blank	<1.0	ug/l	
	Chloroform	Blank	<2.0	ug/l	
	1,2-Dichloroethane	Blank	<1.0	ug/l	
	1,4-Dichlorobenzene	Blank	<1.0	ug/l	
	Ethyl Benzene	Blank	<1.0	ug/l	
	2-Butanone (MEK)	Blank	<20.0	ug/l	
	MIBK	Blank	<10.0	ug/l	
	Naphthalene	Blank	<5.0	ug/l	
	Styrene	Blank	<1.0	ug/l	
	Tetrachloroethylene	Blank	<1.0	ug/l	
	Toluene	Blank	<1.0	ug/l	
	1,1,1-Trichloroethane	Blank	<1.0	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<1.0	ug/l	
	Trichlorofluoromethane	Blank	<2.0	ug/l	
	o-Xylene	Blank	<1.0	ug/l	
	m + p Xylene	Blank	<2.0	ug/l	
	1,2-Dichlorobenzene	Blank	<1.0	ug/l	
	1,3-Dichlorobenzene	Blank	<1.0	ug/l	
	1,1-Dichloroethane	Blank	<1.0	ug/l	
	1,1-Dichloroethylene	Blank	<1.0	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<1.0	ug/l	
	trans-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	Vinyl Chloride	Blank	<2.0	ug/l	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-127032					
	Methylene Chloride	Blank	<5.0	ug/l	
	Chlorobenzene	Blank	<1.0	ug/l	
	Chloromethane	Blank	<2.0	ug/l	
	Bromomethane	Blank	<6.0	ug/l	
	Chloroethane	Blank	<2.0	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<1.0	ug/l	
	Bromoform	Blank	<1.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<1.0	ug/l	
	Hexachlorobutadiene	Blank	<1.0	ug/l	
	Isopropylbenzene	Blank	<1.0	ug/l	
	p-Isopropyltoluene	Blank	<1.0	ug/l	
	n-Propylbenzene	Blank	<1.0	ug/l	
	sec-Butylbenzene	Blank	<1.0	ug/l	
	tert-Butylbenzene	Blank	<1.0	ug/l	
	1,2,3-Trichlorobenzene	Blank	<5.0	ug/l	
	1,2,4-Trichlorobenzene	Blank	<2.0	ug/l	
	1,2,4-Trimethylbenzene	Blank	<1.0	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.0	ug/l	
	cis-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	4-Chlorotoluene	Blank	<1.0	ug/l	
	1,1-Dichloropropene	Blank	<2.0	ug/l	
	1,2-Dichloropropane	Blank	<1.0	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<1.0	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<1.0	ug/l	
	1,2,3-Trichloropropane	Blank	<2.0	ug/l	
	n-Butylbenzene	Blank	<1.0	ug/l	
	Dichlorodifluoromethane	Blank	<2.0	ug/l	
	Bromochloromethane	Blank	<1.0	ug/l	
	Bromobenzene	Blank	<1.0	ug/l	
	Acrylonitrile	Blank	<5.0	ug/l	
	Carbon Disulfide	Blank	<4.0	ug/l	
	2-Hexanone	Blank	<10.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.0	ug/l	
	Diethyl Ether	Blank	<2.0	ug/l	
	Bromodichloromethane	Blank	<1.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	

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QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-127032					
	Tetrahydrofuran	Blank	<10.0	ug/l	
	tert-Butyl Alcohol	Blank	<20.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	
LFBLANK-88933					
	Acetone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	89.6	ug/l	
		Lab Fort Blk. % Rec.	89.6	%	70-160
	Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.8	ug/l	
		Lab Fort Blk. % Rec.	108.6	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.3	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.2	ug/l	
		Lab Fort Blk. % Rec.	112.0	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.0	ug/l	
		Lab Fort Blk. % Rec.	110.4	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.1	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.1	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	82.2	ug/l	
		Lab Fort Blk. % Rec.	82.2	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	81.9	ug/l	
		Lab Fort Blk. % Rec.	81.9	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.2	ug/l	
		Lab Fort Blk. % Rec.	72.1	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.5	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.3	ug/l	
		Lab Fort Blk. % Rec.	113.5	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-88933					
	Toluene	Lab Fort Blk. Found	11.2	ug/l	
		Lab Fort Blk. % Rec.	112.2	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.5	ug/l	
		Lab Fort Blk. % Rec.	115.9	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.8	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	12.5	ug/l	
		Lab Fort Blk. % Rec.	125.4	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.9	ug/l	
		Lab Fort Blk. % Rec.	119.6	%	70-130
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.7	ug/l	
		Lab Fort Blk. % Rec.	107.5	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	21.7	ug/l	
		Lab Fort Blk. % Rec.	108.8	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.4	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.1	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.2	ug/l	
		Lab Fort Blk. % Rec.	112.9	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.5	ug/l	
		Lab Fort Blk. % Rec.	115.6	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	86.1	ug/l	
		Lab Fort Blk. % Rec.	86.1	%	40-130
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.9	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.5	ug/l	
		Lab Fort Blk. % Rec.	115.4	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.6	ug/l	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-88933					
	Vinyl Chloride	Lab Fort Blk. % Rec.	86.7	%	40-160
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.3	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.8	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.8	ug/l	
		Lab Fort Blk. % Rec.	78.2	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	13.8	ug/l	
		Lab Fort Blk. % Rec.	138.8	%	40-160
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.8	ug/l	
		Lab Fort Blk. % Rec.	108.6	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.9	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.2	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.5	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.7	%	70-130
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.2	ug/l	
		Lab Fort Blk. % Rec.	82.1	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.1	ug/l	
		Lab Fort Blk. % Rec.	81.6	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.0	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.7	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.1	%	70-130

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-88933					
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.3	%	70-130
	n-Propylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.4	%	70-130
	sec-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.9	ug/l	
		Lab Fort Blk. % Rec.	109.6	%	70-130
	tert-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.4	%	70-130
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	6.3	ug/l	
		Lab Fort Blk. % Rec.	63.6	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	6.5	ug/l	
		Lab Fort Blk. % Rec.	65.2	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.3	ug/l	
		Lab Fort Blk. % Rec.	113.7	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.9	%	70-130
	Dibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.8	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.8	%	70-130
	4-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.8	%	70-130
	1,1-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.0	ug/l	
		Lab Fort Blk. % Rec.	110.8	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.4	%	70-130
	1,3-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.7	%	70-130
	2,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-88933					
	2,2-Dichloropropane	Lab Fort Blk. Found	10.6	ug/l	
		Lab Fort Blk. % Rec.	106.5	%	40-130
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.2	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.3	ug/l	
		Lab Fort Blk. % Rec.	73.9	%	70-130
	n-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.0	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.7	ug/l	
		Lab Fort Blk. % Rec.	87.4	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.6	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.7	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.1	ug/l	
		Lab Fort Blk. % Rec.	81.1	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.4	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	79.5	ug/l	
		Lab Fort Blk. % Rec.	79.5	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	6.6	ug/l	
		Lab Fort Blk. % Rec.	66.1	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.7	ug/l	
		Lab Fort Blk. % Rec.	107.3	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.6	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	6.7	ug/l	
		Lab Fort Blk. % Rec.	67.2	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l	
		Lab Fort Blk. Found	8.59	ug/l	

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QC SUMMARY REPORT

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QC Batch Number: GCMS/VOL-21039

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-88933					
	1,2-Dibromoethane	Lab Fort Blk. % Rec.	85.90	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.4	ug/l	
		Lab Fort Blk. % Rec.	74.3	%	70-130
	tert-Butyl Alcohol	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	63.4	ug/l	
		Lab Fort Blk. % Rec.	63.4	%	40-160
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.1	%	70-130
	tert-Butylethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.3	%	70-160
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.0	%	70-130

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NOTES:

QC Batch No. : GCMS/VOL-21039
Sample ID : LFBLANK-88933
Analysis : 1,2,3-Trichlorobenzene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : GCMS/VOL-21039
Sample ID : LFBLANK-88933
Analysis : 1,2,4-Trichlorobenzene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : GCMS/VOL-21039
Sample ID : LFBLANK-88933
Analysis : 1,2-Dibromo-3-Chloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : GCMS/VOL-21039
Sample ID : LFBLANK-88933
Analysis : trans-1,4-Dichloro-2-Butene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

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QC SUMMARY REPORT

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Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

LIMS-21552

13

Company Name: LFR, Inc
Address: 300 Metro Ctr Blvd. Suite 250
Attention: Warwick, RI
DONNA PALLISTER/SPRINGFIELD ST
Project Location: Providence, RI
Sampled By: Jake Lamarine

Telephone: (401) 738 3887
Project # 081-12152-00
Client PO #

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

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

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab # 088	Date Sampled Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	VOCs 8260B	# of containers	**Preservation	~Cont.Code
	ATC-4	47179	14:25		11/18				X	4	H	V
	ATC-5	47180	13:45		11/18				X	4	H	V
	ATC-1	47181	17:30		11/19				X	4	H	V
	TRIP BLANK	47182							X	4	H	V

ANALYSIS REQUESTED

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

Client Comments:

Laboratory Comments:

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

Relinquished by: (signature) Refer	Date/Time: 16:45 11/18/08	
Received by: (signature) Refer	Date/Time: 11-20-08 1400	
Relinquished by: (signature)	Date/Time: 11-20-08 1810	
Received by: (signature) 3°C	Date/Time: 11/20/08 1810	

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? ____
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's: ____

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

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

** 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.

AIHA, NELAC & WBE/DBE Certified

www.contestlabs.com

con-test® ANALYTICAL LABORATORY

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

Sample Receipt Checklist

CLIENT NAME: LFR RECEIVED BY: KC DATE: 11/20

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

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

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3C

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

Who was notified _____ Date _____ Time _____

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

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

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

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	13	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 13 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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

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

REPORT DATE 12/4/2008

LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 081-12152-05

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-21700
JOB NUMBER: 081-12152-05

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report. Results are based on samples as submitted to the laboratory and relate only to the items collected and tested.

PROJECT LOCATION: SPRINGFIELD ST

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
MPL-6	08B47935	AIR	Not Specified	to-14 ppbv	
MPL-6	08B47935	AIR	Not Specified	to-14 ug/m3	
WB-2	08B47936	AIR	Not Specified	to-14 ppbv	
WB-2	08B47936	AIR	Not Specified	to-14 ug/m3	

Comments :

LIMS BATCH NO. : LIMT-21700

In method TO-15, samples 08B47935 - 08B47936 were taken in tedlar bags. Holding times and stability for samples taken in tedlar bags have not been determined.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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.

Edward Denson 12/5/08

SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : MPL-6

Sample ID : 08B47935

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ppbv				EPA TO-14A		
Benzene	PPBv	0.29	0.05		12/01/08	XC
Bromomethane	PPBv	ND	0.05		12/01/08	XC
Carbon Tetrachloride	PPBv	ND	0.05		12/01/08	XC
Chlorobenzene	PPBv	0.06	0.05		12/01/08	XC
Chloroethane	PPBv	ND	0.05		12/01/08	XC
Chloroform	PPBv	0.10	0.05		12/01/08	XC
Chloromethane	PPBv	0.36	0.05		12/01/08	XC
1,2-Dibromoethane	PPBv	ND	0.05		12/01/08	XC
1,2-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,3-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,4-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
Dichlorodifluoromethane	PPBv	0.31	0.05		12/01/08	XC
1,1-Dichloroethane	PPBv	ND	0.05		12/01/08	XC
1,2-Dichloroethane	PPBv	ND	0.05		12/01/08	XC
1,1-Dichloroethylene	PPBv	ND	0.05		12/01/08	XC
cis-1,2-Dichloroethylene	PPBv	ND	0.05		12/01/08	XC
1,2-Dichloropropane	PPBv	ND	0.05		12/01/08	XC
cis-1,3-Dichloropropene	PPBv	ND	0.05		12/01/08	XC
trans-1,3-Dichloropropene	PPBv	ND	0.05		12/01/08	XC
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		12/01/08	XC
Ethylbenzene	PPBv	0.44	0.05		12/01/08	XC
Hexachlorobutadiene	PPBv	ND	0.10		12/01/08	XC
Methylene Chloride	PPBv	2.9	0.05		12/01/08	XC
Styrene	PPBv	0.28	0.05		12/01/08	XC
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		12/01/08	XC
Tetrachloroethylene	PPBv	0.55	0.05		12/01/08	XC
Toluene	PPBv	3.9	0.05		12/01/08	XC
1,2,4-Trichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,1,1-Trichloroethane	PPBv	ND	0.05		12/01/08	XC
1,1,2-Trichloroethane	PPBv	ND	0.05		12/01/08	XC
Trichloroethylene	PPBv	1.7	0.05		12/01/08	XC
Trichlorofluoromethane (Freon 11)	PPBv	0.48	0.05		12/01/08	XC
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.06	0.05		12/01/08	XC
1,2,4-Trimethylbenzene	PPBv	0.33	0.05		12/01/08	XC
1,3,5-Trimethylbenzene	PPBv	0.10	0.05		12/01/08	XC

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : MPL-6

Sample ID : 08B47935

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ppbv				EPA TO-14A		
Vinyl Chloride	PPBv	ND	0.05		12/01/08	XC
m/p-Xylene	PPBv	0.95	0.10		12/01/08	XC
o-Xylene	PPBv	0.38	0.05		12/01/08	XC
to-14 ug/m				EPA TO-14A		
Benzene	ug/m3	0.93	0.16		12/01/08	XC
Bromomethane	ug/m3	ND	0.19		12/01/08	XC
Carbon Tetrachloride	ug/m3	ND	0.31		12/01/08	XC
Chlorobenzene	ug/m3	0.28	0.23		12/01/08	XC
Chloroethane	ug/m3	ND	0.13		12/01/08	XC
Chloroform	ug/m3	0.47	0.24		12/01/08	XC
Chloromethane	ug/m3	0.74	0.10		12/01/08	XC
1,2-Dibromoethane	ug/m3	ND	0.38		12/01/08	XC
1,2-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
1,3-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
1,4-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
Dichlorodifluoromethane	ug/m3	1.5	0.25		12/01/08	XC
1,1-Dichloroethane	ug/m3	ND	0.20		12/01/08	XC
1,2-Dichloroethane	ug/m3	ND	0.20		12/01/08	XC
1,1-Dichloroethylene	ug/m3	ND	0.20		12/01/08	XC
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		12/01/08	XC
1,2-Dichloropropane	ug/m3	ND	0.23		12/01/08	XC
cis-1,3-Dichloropropene	ug/m3	ND	0.22		12/01/08	XC
trans-1,3-Dichloropropene	ug/m3	ND	0.22		12/01/08	XC
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		12/01/08	XC
Ethylbenzene	ug/m3	1.9	0.22		12/01/08	XC
Hexachlorobutadiene	ug/m3	ND	1.1		12/01/08	XC
Methylene Chloride	ug/m3	10	0.17		12/01/08	XC
Styrene	ug/m3	1.2	0.21		12/01/08	XC
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		12/01/08	XC
Tetrachloroethylene	ug/m3	3.7	0.34		12/01/08	XC
Toluene	ug/m3	15	0.19		12/01/08	XC
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		12/01/08	XC
1,1,1-Trichloroethane	ug/m3	ND	0.27		12/01/08	XC
1,1,2-Trichloroethane	ug/m3	ND	0.27		12/01/08	XC
Trichloroethylene	ug/m3	9.0	0.27		12/01/08	XC

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : MPL-6

Sample ID : 08B47935

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ug/m				EPA TO-14A		
Trichlorofluoromethane	ug/m3	2.7	0.28		12/01/08	XC
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.47	0.38		12/01/08	XC
1,2,4-Trimethylbenzene	ug/m3	1.6	0.25		12/01/08	XC
1,3,5-Trimethylbenzene	ug/m3	0.50	0.25		12/01/08	XC
Vinyl Chloride	ug/m3	ND	0.13		12/01/08	XC
m/p-Xylene	ug/m3	4.1	0.43		12/01/08	XC
o-Xylene	ug/m3	1.6	0.22		12/01/08	XC

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‡ See attached chain-of-custody record for time sampled

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : WB-2

Sample ID : 08B47936

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ppbv				EPA TO-14A		
Benzene	PPBv	0.23	0.05		12/01/08	XC
Bromomethane	PPBv	ND	0.05		12/01/08	XC
Carbon Tetrachloride	PPBv	0.06	0.05		12/01/08	XC
Chlorobenzene	PPBv	ND	0.05		12/01/08	XC
Chloroethane	PPBv	ND	0.05		12/01/08	XC
Chloroform	PPBv	0.06	0.05		12/01/08	XC
Chloromethane	PPBv	0.23	0.05		12/01/08	XC
1,2-Dibromoethane	PPBv	ND	0.05		12/01/08	XC
1,2-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,3-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,4-Dichlorobenzene	PPBv	ND	0.05		12/01/08	XC
Dichlorodifluoromethane	PPBv	0.40	0.05		12/01/08	XC
1,1-Dichloroethane	PPBv	ND	0.05		12/01/08	XC
1,2-Dichloroethane	PPBv	ND	0.05		12/01/08	XC
1,1-Dichloroethylene	PPBv	ND	0.05		12/01/08	XC
cis-1,2-Dichloroethylene	PPBv	ND	0.05		12/01/08	XC
1,2-Dichloropropane	PPBv	ND	0.05		12/01/08	XC
cis-1,3-Dichloropropene	PPBv	ND	0.05		12/01/08	XC
trans-1,3-Dichloropropene	PPBv	ND	0.05		12/01/08	XC
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		12/01/08	XC
Ethylbenzene	PPBv	0.33	0.05		12/01/08	XC
Hexachlorobutadiene	PPBv	ND	0.10		12/01/08	XC
Methylene Chloride	PPBv	2.3	0.05		12/01/08	XC
Styrene	PPBv	0.13	0.05		12/01/08	XC
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		12/01/08	XC
Tetrachloroethylene	PPBv	0.84	0.05		12/01/08	XC
Toluene	PPBv	1.8	0.05		12/01/08	XC
1,2,4-Trichlorobenzene	PPBv	ND	0.05		12/01/08	XC
1,1,1-Trichloroethane	PPBv	ND	0.05		12/01/08	XC
1,1,2-Trichloroethane	PPBv	ND	0.05		12/01/08	XC
Trichloroethylene	PPBv	0.97	0.05		12/01/08	XC
Trichlorofluoromethane (Freon 11)	PPBv	0.30	0.05		12/01/08	XC
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		12/01/08	XC
1,2,4-Trimethylbenzene	PPBv	0.66	0.05		12/01/08	XC
1,3,5-Trimethylbenzene	PPBv	0.20	0.05		12/01/08	XC

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : WB-2

Sample ID : 08B47936

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ppbv				EPA TO-14A		
Vinyl Chloride	PPBv	ND	0.05		12/01/08	XC
m/p-Xylene	PPBv	0.94	0.10		12/01/08	XC
o-Xylene	PPBv	0.43	0.05		12/01/08	XC
to-14 ug/m				EPA TO-14A		
Benzene	ug/m3	0.74	0.16		12/01/08	XC
Bromomethane	ug/m3	ND	0.19		12/01/08	XC
Carbon Tetrachloride	ug/m3	0.36	0.31		12/01/08	XC
Chlorobenzene	ug/m3	ND	0.23		12/01/08	XC
Chloroethane	ug/m3	ND	0.13		12/01/08	XC
Chloroform	ug/m3	0.28	0.24		12/01/08	XC
Chloromethane	ug/m3	0.48	0.10		12/01/08	XC
1,2-Dibromoethane	ug/m3	ND	0.38		12/01/08	XC
1,2-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
1,3-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
1,4-Dichlorobenzene	ug/m3	ND	0.30		12/01/08	XC
Dichlorodifluoromethane	ug/m3	2.0	0.25		12/01/08	XC
1,1-Dichloroethane	ug/m3	ND	0.20		12/01/08	XC
1,2-Dichloroethane	ug/m3	ND	0.20		12/01/08	XC
1,1-Dichloroethylene	ug/m3	ND	0.20		12/01/08	XC
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		12/01/08	XC
1,2-Dichloropropane	ug/m3	ND	0.23		12/01/08	XC
cis-1,3-Dichloropropene	ug/m3	ND	0.22		12/01/08	XC
trans-1,3-Dichloropropene	ug/m3	ND	0.22		12/01/08	XC
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		12/01/08	XC
Ethylbenzene	ug/m3	1.4	0.22		12/01/08	XC
Hexachlorobutadiene	ug/m3	ND	1.1		12/01/08	XC
Methylene Chloride	ug/m3	7.9	0.17		12/01/08	XC
Styrene	ug/m3	0.54	0.21		12/01/08	XC
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		12/01/08	XC
Tetrachloroethylene	ug/m3	5.7	0.34		12/01/08	XC
Toluene	ug/m3	7.0	0.19		12/01/08	XC
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		12/01/08	XC
1,1,1-Trichloroethane	ug/m3	ND	0.27		12/01/08	XC
1,1,2-Trichloroethane	ug/m3	ND	0.27		12/01/08	XC
Trichloroethylene	ug/m3	5.2	0.27		12/01/08	XC

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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

DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

Field Sample # : WB-2

Sample ID : 08B47936

‡Sampled : 11/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	RL	Method	Date Analyzed	Analyst
to-14 ug/m				EPA TO-14A		
Trichlorofluoromethane	ug/m3	1.7	0.28		12/01/08	XC
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.51	0.38		12/01/08	XC
1,2,4-Trimethylbenzene	ug/m3	3.2	0.25		12/01/08	XC
1,3,5-Trimethylbenzene	ug/m3	0.96	0.25		12/01/08	XC
Vinyl Chloride	ug/m3	ND	0.13		12/01/08	XC
m/p-Xylene	ug/m3	4.1	0.43		12/01/08	XC
o-Xylene	ug/m3	1.9	0.22		12/01/08	XC

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

con-test®
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DONNA PALLISTER
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

12/4/2008

Purchase Order No.:

Project Number: 081-12152-05
LIMS-BAT #: LIMT-21700
Job Number: 081-12152-05

Project Location: SPRINGFIELD ST
Date Received: 11/26/2008

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 12/4/2008 Lims Bat # : LIMT-21700

QC Batch Number: BATCH-15618

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B47935					
	4-Bromofluorobenzene	Surrogate Recovery	99.50	%	70-130
08B47936					
	4-Bromofluorobenzene	Surrogate Recovery	99.50	%	70-130
BLANK-127189					
	Benzene	Blank	<0.08	ug/m3	
	Carbon Tetrachloride	Blank	<0.16	ug/m3	
	Chloroform	Blank	<0.12	ug/m3	
	1,2-Dichloroethane	Blank	<0.10	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.15	ug/m3	
	Ethylbenzene	Blank	<0.11	ug/m3	
	Styrene	Blank	<0.11	ug/m3	
	Tetrachloroethylene	Blank	<0.17	ug/m3	
	Toluene	Blank	<0.10	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.14	ug/m3	
	Trichloroethylene	Blank	<0.14	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.19	ug/m3	
	Trichlorofluoromethane	Blank	<0.14	ug/m3	
	o-Xylene	Blank	<0.11	ug/m3	
	m/p-Xylene	Blank	<0.22	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,1-Dichloroethane	Blank	<0.10	ug/m3	
	1,1-Dichloroethylene	Blank	<0.10	ug/m3	
	Vinyl Chloride	Blank	<0.07	ug/m3	
	Methylene Chloride	Blank	<0.18	ug/m3	
	Chlorobenzene	Blank	<0.12	ug/m3	
	Chloromethane	Blank	<0.05	ug/m3	
	Bromomethane	Blank	<0.10	ug/m3	
	Chloroethane	Blank	<0.07	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.14	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.17	ug/m3	
	Hexachlorobutadiene	Blank	<0.54	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.19	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.13	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.13	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.10	ug/m3	
	1,2-Dichloropropane	Blank	<0.12	ug/m3	
	Dichlorodifluoromethane	Blank	<0.13	ug/m3	
	1,2-Dibromoethane	Blank	<0.19	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.18	ug/m3	
LFBLANK-89105					

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-15618

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89105					
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	14.91	ug/m3	
		Lab Fort Blk. % Rec.	93.49	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	31.22	ug/m3	
		Lab Fort Blk. % Rec.	99.28	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	23.11	ug/m3	
		Lab Fort Blk. % Rec.	94.97	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	19.91	ug/m3	
		Lab Fort Blk. % Rec.	98.38	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.52	ug/m3	
		Lab Fort Blk. % Rec.	118.18	%	70-130
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	21.78	ug/m3	
		Lab Fort Blk. % Rec.	100.50	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	18.31	ug/m3	
		Lab Fort Blk. % Rec.	86.12	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	34.34	ug/m3	
		Lab Fort Blk. % Rec.	101.30	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.51	ug/m3	
		Lab Fort Blk. % Rec.	93.08	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.08	ug/m3	
		Lab Fort Blk. % Rec.	95.61	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	26.23	ug/m3	
		Lab Fort Blk. % Rec.	97.61	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	36.86	ug/m3	
		Lab Fort Blk. % Rec.	96.20	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	31.34	ug/m3	
		Lab Fort Blk. % Rec.	111.56	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	22.56	ug/m3	
		Lab Fort Blk. % Rec.	103.90	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-15618

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89105					
	m/p-Xylene	Lab Fort Blk. Found	44.66	ug/m3	
		Lab Fort Blk. % Rec.	102.84	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.49	ug/m3	
		Lab Fort Blk. % Rec.	118.06	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.18	ug/m3	
		Lab Fort Blk. % Rec.	117.04	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.86	ug/m3	
		Lab Fort Blk. % Rec.	93.20	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.48	ug/m3	
		Lab Fort Blk. % Rec.	93.18	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	14.41	ug/m3	
		Lab Fort Blk. % Rec.	112.76	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	16.12	ug/m3	
		Lab Fort Blk. % Rec.	92.86	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	23.48	ug/m3	
		Lab Fort Blk. % Rec.	101.98	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	10.90	ug/m3	
		Lab Fort Blk. % Rec.	105.62	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.50	ug/m3	
		Lab Fort Blk. % Rec.	100.48	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.33	ug/m3	
		Lab Fort Blk. % Rec.	116.24	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	21.83	ug/m3	
		Lab Fort Blk. % Rec.	96.19	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.27	ug/m3	
		Lab Fort Blk. % Rec.	98.13	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.99	ug/m3	
		Lab Fort Blk. % Rec.	98.94	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	39.08	ug/m3	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-15618

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89105					
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	113.84	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	59.09	ug/m3	
		Lab Fort Blk. % Rec.	110.80	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	44.00	ug/m3	
		Lab Fort Blk. % Rec.	118.60	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.83	ug/m3	
		Lab Fort Blk. % Rec.	105.12	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.44	ug/m3	
		Lab Fort Blk. % Rec.	103.50	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.66	ug/m3	
		Lab Fort Blk. % Rec.	94.15	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	21.71	ug/m3	
		Lab Fort Blk. % Rec.	93.95	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	24.77	ug/m3	
		Lab Fort Blk. % Rec.	100.18	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	39.43	ug/m3	
		Lab Fort Blk. % Rec.	102.62	%	70-130
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	35.94	ug/m3	
		Lab Fort Blk. % Rec.	102.82	%	70-130

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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

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

CHAIN OF CUSTODY RECORD

LFMI-21700

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

Company Name: LFR INC
Address: 300 METRO CENTER BLVD WARWICK, RI 02886
Attention: DONNA PALLISTER
Project Location: SPRINGFIELD ST
Sampled By: CHRIS JAMISON

Telephone: (401) 736-3527
Project # 081-12152-05
Client PO #

DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT
Fax # :
Email:
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY
☐ OTHER

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

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab #	Date Sampled: Start Date/Time	Date Sampled: Stop Date/Time	Comp-osite	Grab	*Matrix Code	Conc. Code	# of containers	**Preservation	~Cont.Code
	MPL-6	08847935	11/26	9:40		X	A		10-14	X	
	WB-2	08847936	11/26	10:30		X	A			X	

ANALYSIS REQUESTED

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

Client Comments:

Laboratory Comments:

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

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

Relinquished by: (signature)	Date/Time: 11/26/08	1140
Received by: (signature)	Date/Time: 11-26-08	1140
Relinquished by: (signature)	Date/Time: 11-26-08	1830
Received by: (signature)	Date/Time: 11/26/08	1830

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other 3D

RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? RI
Data Enhancement Project/RCP? ☐ Y ☒ N
Special Requirements or DL's:

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

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

** 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.

AIHA, NELAC & WBE/DBE Certified

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www.contestlabs.com

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

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: L FR

RECEIVED BY: KM DATE: 11/26/08

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

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

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

5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED?_____DATE_____TIME_____

Location where samples are stored: AIR

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

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

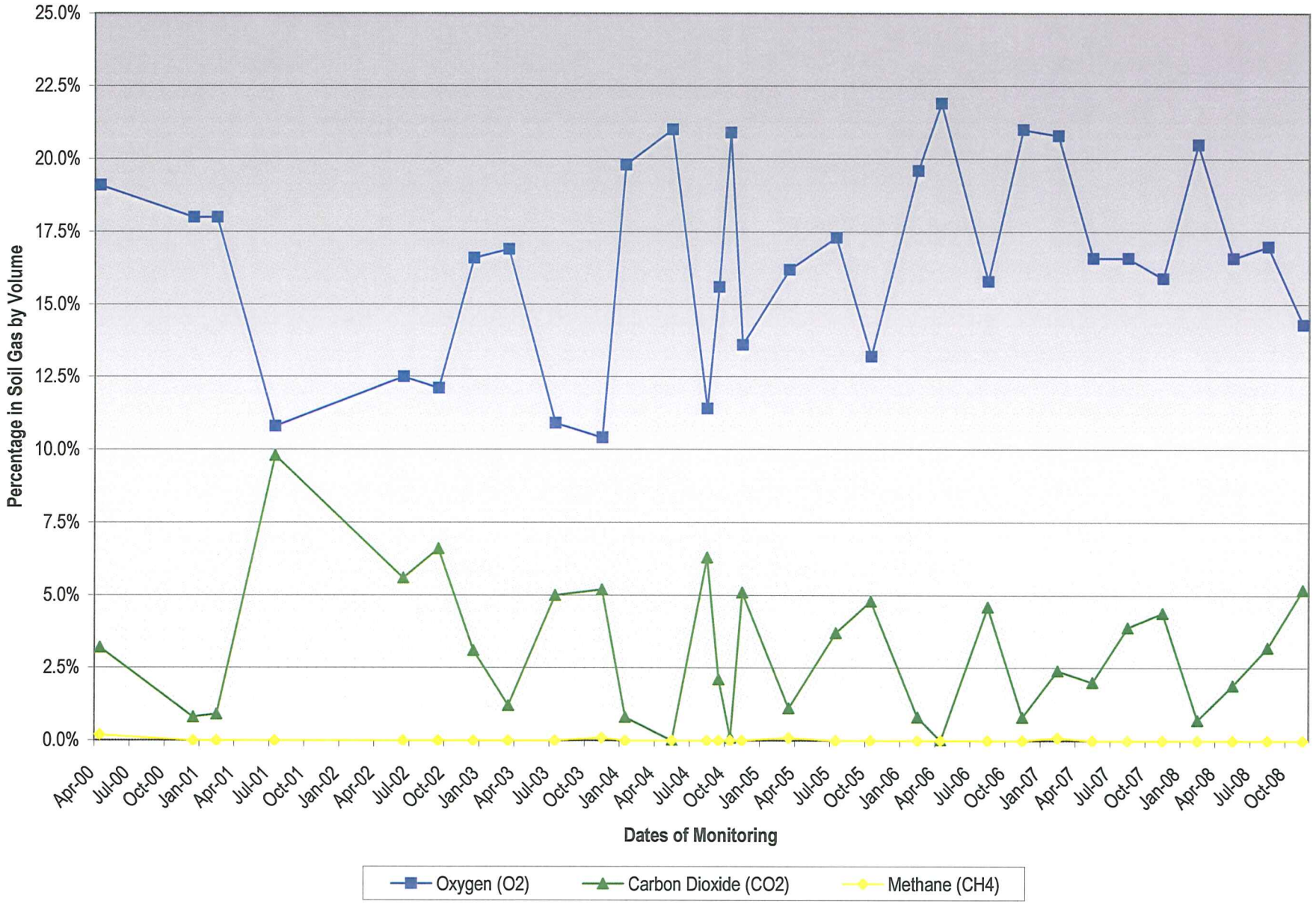
1. Was all media (used & unused) checked into the WASP asset management program? Y
2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet? Y
3. Were the Lab ID's documented in the Air Lab Outbound excel sheet? Y
4. Was the job documented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

Laboratory comments:

Attachment C

Soil Gas Graphs

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



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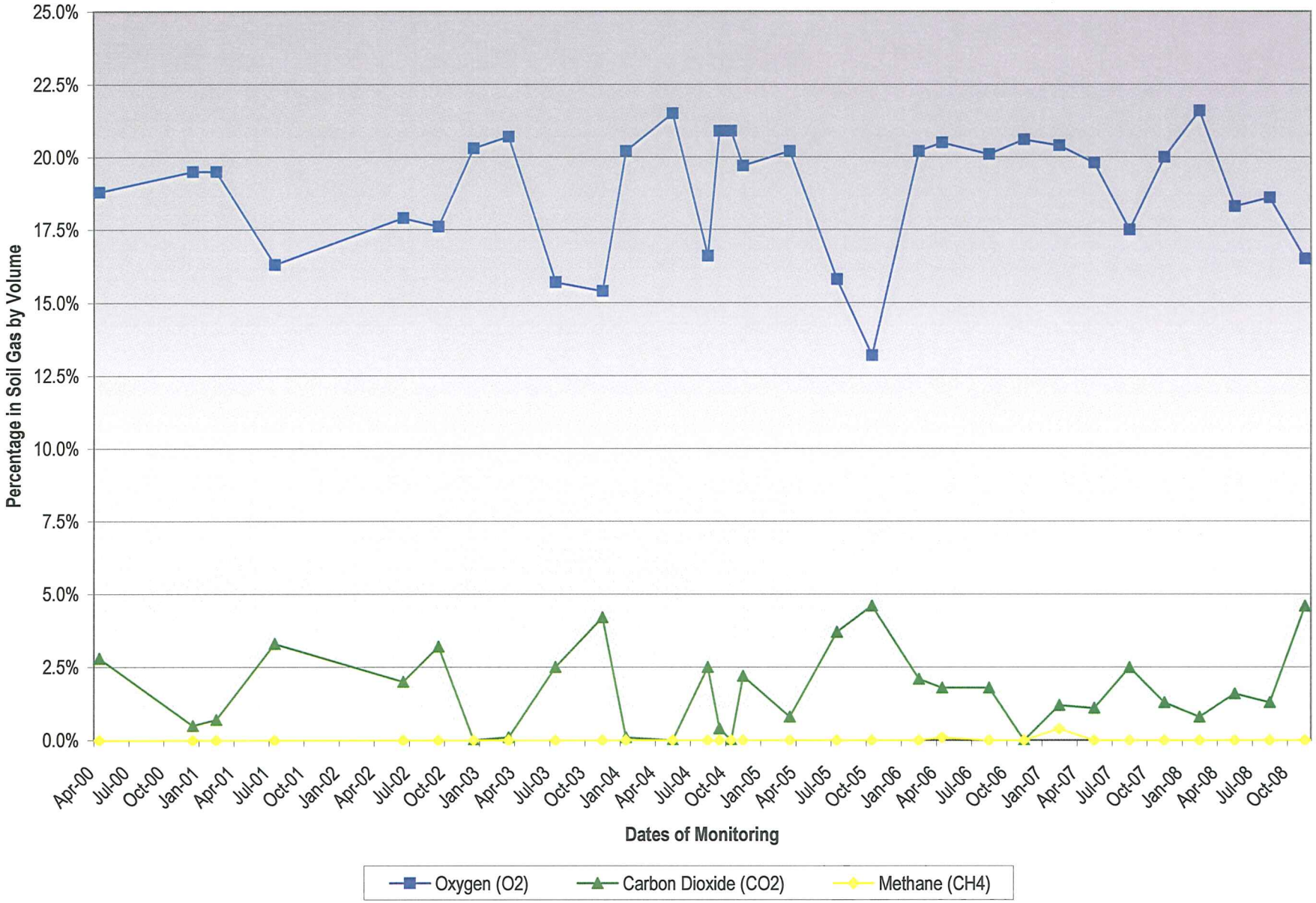
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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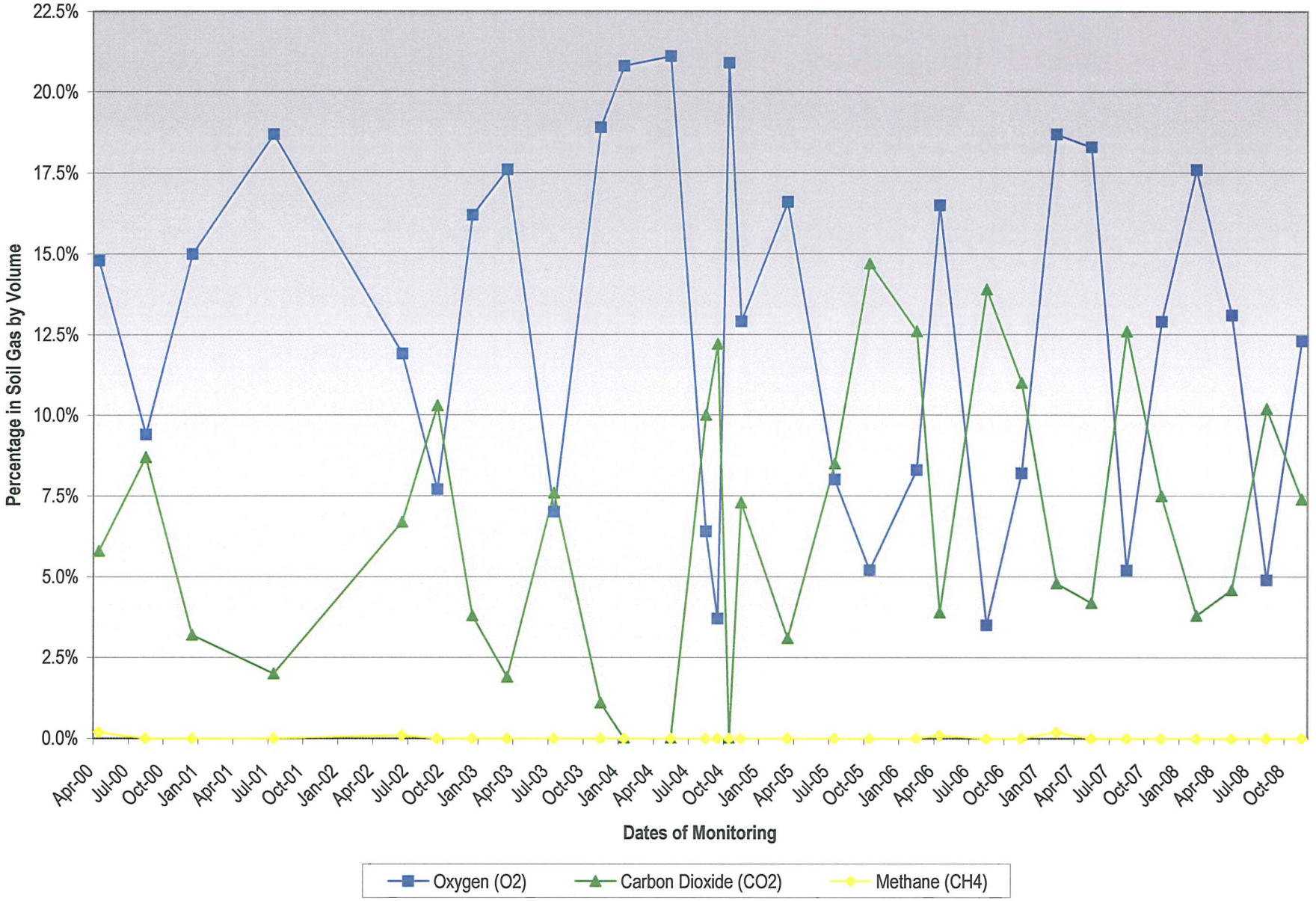
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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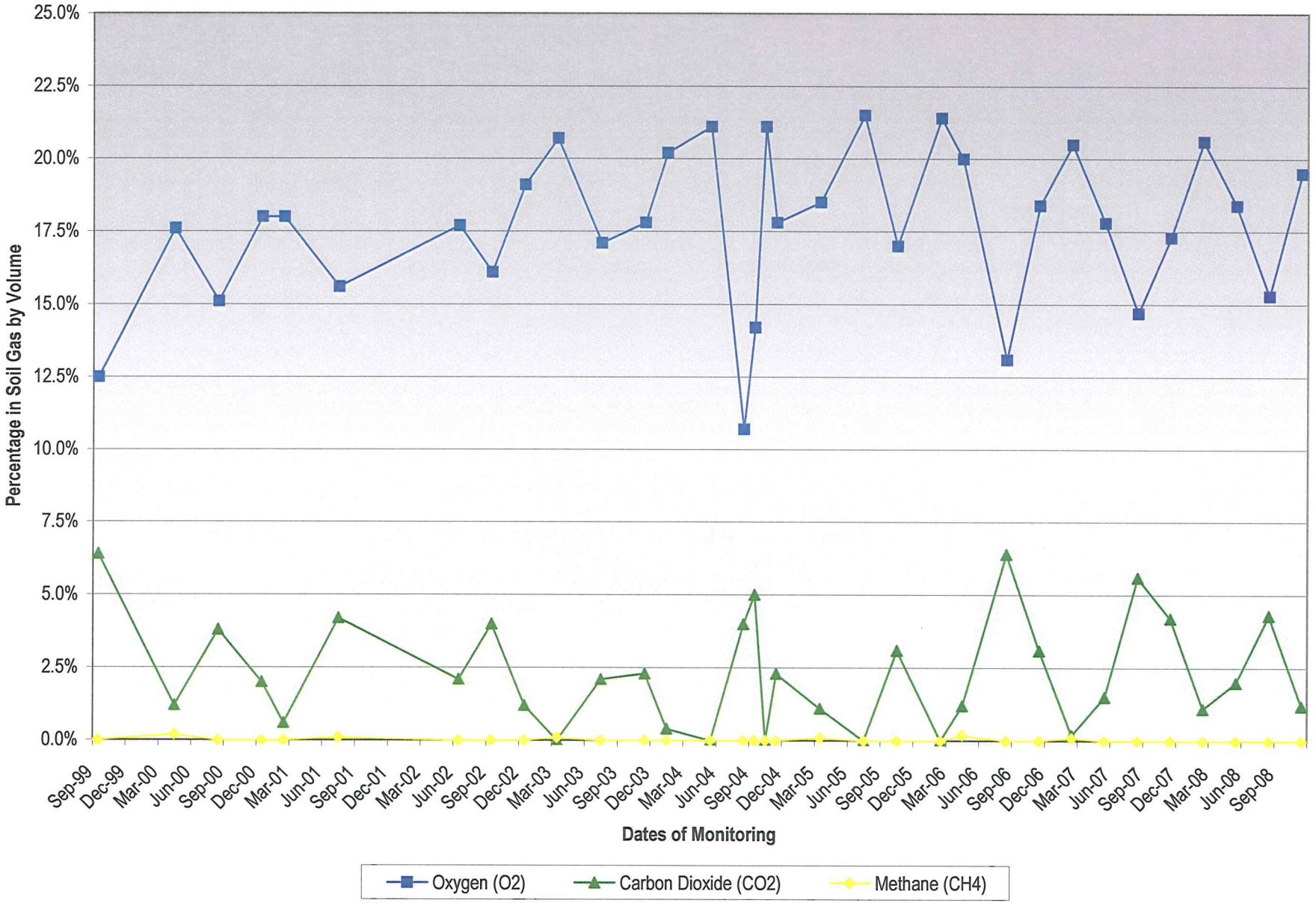
Soil Gas Well WB1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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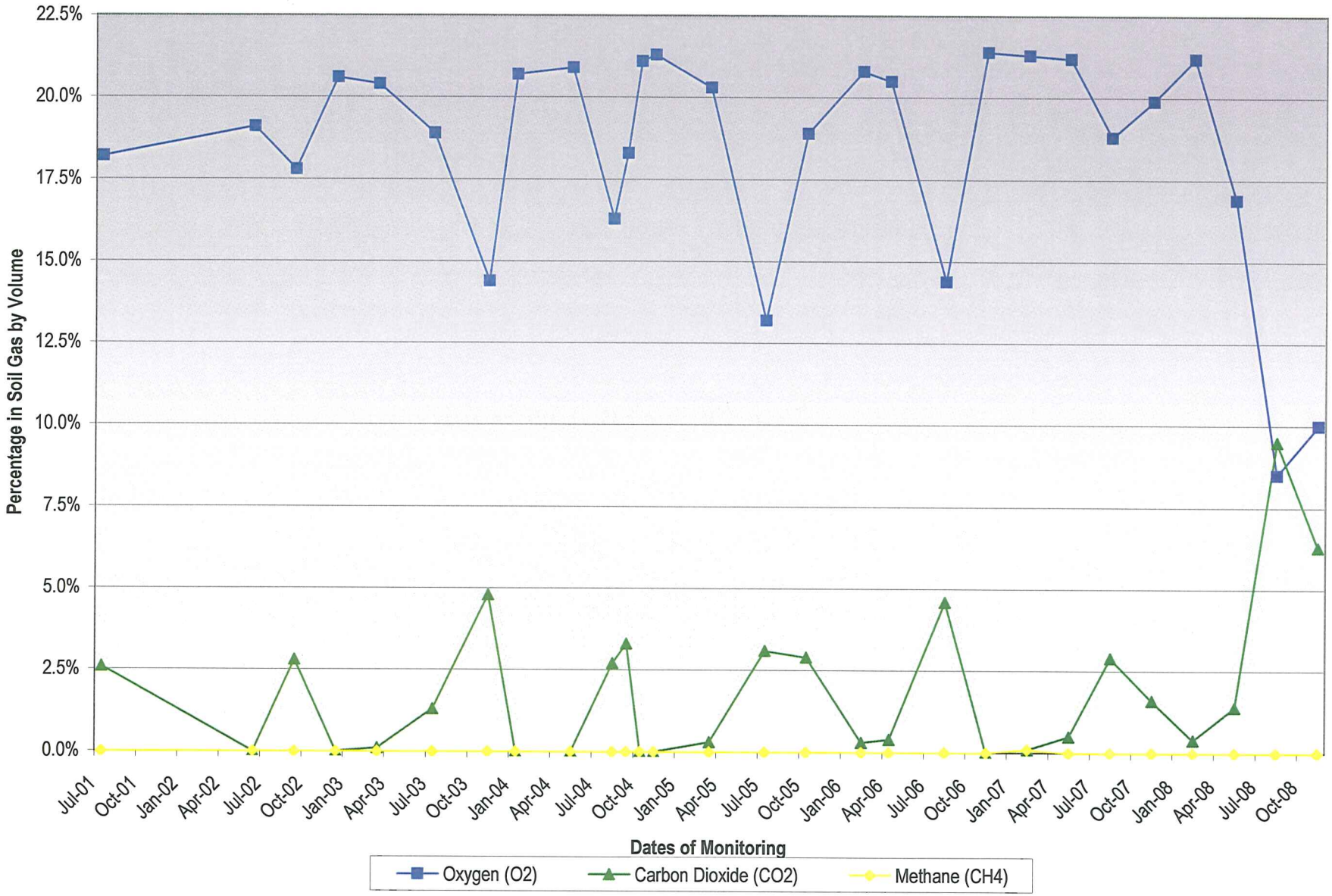
Soil Gas Well WB15
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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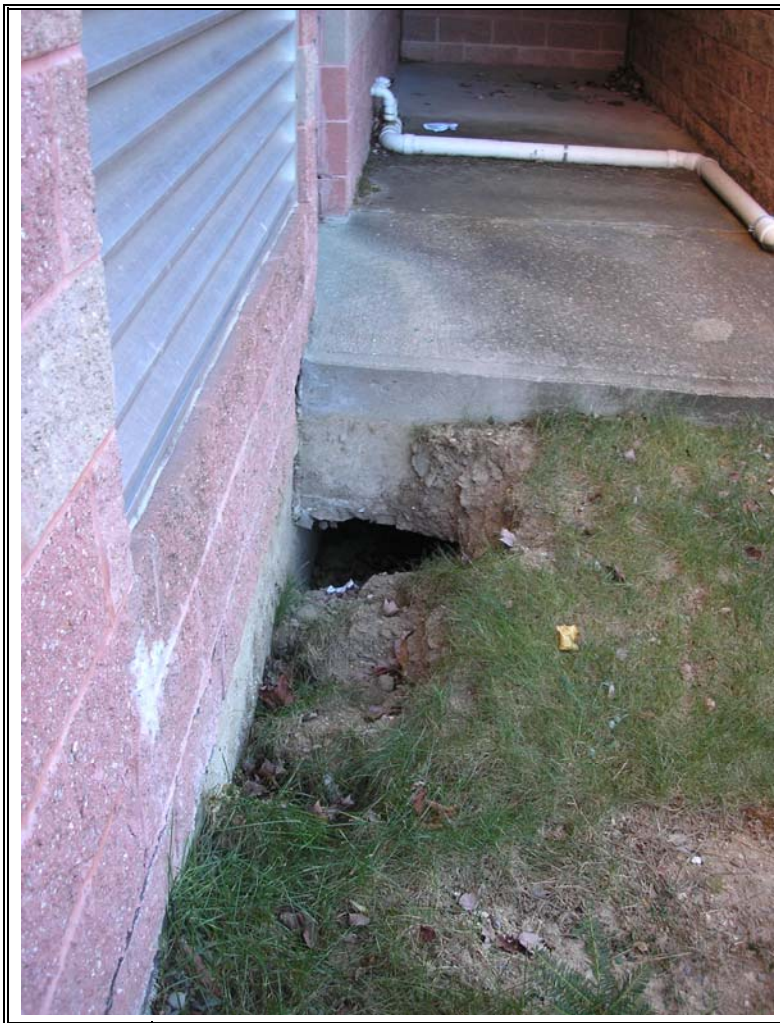
Attachment D
Photographs

	
1	Hole at time of November inspection

	
2	View of the same area after repairs were completed.