**QUARTERLY MONITORING REPORT**
**Springfield Street School Complex**
**Providence, Rhode Island**
**August 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 ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

September 9, 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 – August 2008 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring for soil gas, indoor air and system monitoring was conducted during the week of August 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 August 28, 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. These areas are being repaired by the Providence School Department and a report on the repairs will be submitted under separate cover.

## SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on August 28, 2008. All other blowers were operating normally.

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 GEM2000 Plus, and for volatile organic compounds (VOC) using a MiniRae 2000. Results are provided in Table 1.

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Methane, hydrogen sulfide, carbon monoxide and organic vapor concentrations in the subslab ventilation system samples were all measured as zero during this monitoring event. Carbon dioxide readings at the elementary school ranged from 0.1 to 0.5 percent, and carbon dioxide readings at the middle school ranged from 0.1 to 0.3 percent.

## INDOOR AIR MONITORING

Indoor air monitoring was conducted on August 28, 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. Methane, carbon monoxide, hydrogen sulfide, 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 542 to 854 ppm in the elementary school, and from 543 to 743 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. 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. The concentration of carbon dioxide measured in outdoor air in the Middle School parking lot on August 28, 2008 was 412 ppm.

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

The control panels for the methane monitors at both schools were inspected on August 28, 2008. The methane monitor control panels had stickers that indicated the monitors were last calibrated by Diamond Technical Services personnel on August 21, 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 14.30 to 18.76 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 analytical results indicated that trace concentrations of methyl tertiary-butyl ether (MTBE) were detected in ATC-1. Trace concentrations of chlorobenzene and 1,4-dichlorobenzene were detected in ATC-4. The detected concentrations are significantly below respective RIDEM GB Groundwater Objectives. No other target analytes were detected in the three groundwater samples.

## SOIL GAS MONITORING

Soil gas monitoring was conducted at 28 locations on August 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 at 22 of 28 locations with detectable concentrations ranging from 0.1% to 11.8%. The carbon dioxide Remedial Action Work Plan Action Level is 0.1%, and 22 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 11.8%, compared with a maximum detected concentration in May of 2008 of 8.6%. The highest concentrations of carbon dioxide were found in wells MPL-6 and MPL-2, 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 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.

Inspection of the cap did not reveal any evidence of exposure of the orange barrier or of breaches of the cap that would allow users of the Site to be exposed to the underlying capped soils.

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

Christopher B. Dentch
Project Engineer

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
## August 28, 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 | 20.2 | 0.0 | 0.0 | 0.0 |
| Elementary School inlet 2 | 0.0 | 0.1 | 20.2 | 0.0 | 0.0 | 0.0 |
| Elementary School Outlet | 0.0 | 0.3 | 20.2 | 0.0 | 0.0 | 0.0 |
| Middle School front shed inlet | 0.0 | 0.1 | 20.5 | 0.0 | 0.0 | 0.0 |
| Middle School front shed after 2nd carbon | 0.0 | 0.1 | 21.1 | 0.0 | 0.0 | 0.0 |
| Middle School back shed inlet | 0.0 | 0.3 | 20.7 | 0.0 | 0.0 | 0.0 |
| Middle School back shed after 2nd carbon | 0.0 | 0.3 | 20.4 | 0.0 | 0.0 | 0.0 |
| **Remedial Action Work Plan Action Levels** | **0.5** | **1,000 ppm (0.1%)** | **NA** | **9 ppm** | **10 ppm** | **5 ppm** |

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

**Sampling date:** August 28, 2008

**Measured by:** Donna Pallister

**Table 2**
**Indoor Air Monitoring Results**
**Springfield Street School Complex**
**Providence, Rhode Island**
**August 28, 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 | 0.0 | 659 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Elevator | 0.0 | 589 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Faculty Work Room | 0.0 | 542 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Gym | 0.0 | 578 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Hallway Outside Gym | 0.0 | 584 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Library | 0.0 | 586 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Elect. Rm. in Mech.Rm. | 0.0 | 615 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Stairway Stair B | 0.0 | 761 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Room 106 | 0.0 | 645 | 20.9 | 0 | 0 | 0.0 |
| **E.S.** Cafeteria | 0.0 | 854 | 20.9 | 0 | 0 | 0.0 |

**Table 2**
**Indoor Air Monitoring Notes**
**Springfield Street School Complex**
**August 28, 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 | 0.0 | 624 | 20.5 | 0 | 0 | 0.0 |
| **M.S.** Elevator | 0.0 | 633 | 20.5 | 0 | 0 | 0.0 |
| **M.S.** Music Room (now an art room) | 0.0 | 622 | 20.9 | 0 | 0 | 0.0 |
| **M.S.** Stairway near Elem. School | 0.0 | 690 | 20.6 | 0 | 0 | 0.0 |
| **M.S.** Near sensor #16 in hall outside cafeteria | 0.0 | 743 | 20.9 | 0 | 0 | 0.0 |
| **M.S.** Near Sensor in cafeteria (GS-19) | 0.0 | 713 | 20.6 | 0 | 0 | 0.0 |
| **M.S.** Library | 0.0 | 585 | 20.6 | 0 | 0 | 0.0 |
| **M.S.** GS-03 | 0.0 | 651 | 20.6 | 0 | 0 | 0.0 |

**Table 2**
**Indoor Air Monitoring Notes**
**Springfield Street School Complex**
**August 28, 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 | 0.0 | 621 | 20.6 | 0 | 0 | 0.0 |
| **M.S.** Front Hall near sensor #4 | 0.0 | 624 | 20.6 | 0 | 0 | 0.0 |
| **M.S.** Hallway across from elevator near sensor #9 | 0.0 | 677 | 20.9 | 0 | 0 | 0.0 |
| **M.S.** Stairway/ Hartford Ave. near sensor #07 | 0.0 | 543 | 20.6 | 0 | 0 | 0.0 |
| **Remedial Action Work Plan Action Levels** | 0.5 | 1,000 ppm (0.1%) | NA | 9 ppm | 10 ppm | 5 ppm |

**Notes:**

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

Measurements made with: Landtec GEM 2000 Plus, MiniRae PID, RAE 4 gas meter, 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 | |
| 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 | 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 | 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 | NA |
| | tert-Butylbenzene | ND | ND | ND | 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 |
| | Ethylbenzene | 4.5 | ND | 12.6 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 1.80 | 1.90 | ND | ND | 1.2 | 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 | 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 | 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 | 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 | 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 | 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 | | |

*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**
**August 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 | 4.3 | 15.3 | 2 | 0 | 0.0 |
| WB-2 | 0.0 | 0.4 | 21.1 | 0 | 0 | 0.0 |
| WB-3 | 0.0 | 0.0 | 21.8 | 0 | 0 | 0.0 |
| WB-4 | 0.0 | 0.0 | 22.0 | 0 | 0 | 0.0 |
| WB-5 | 0.0 | 0.0 | 22.1 | 0 | 0 | 0.0 |
| WB-6 | 0.0 | 0.0 | 22.1 | 0 | 0 | 0.0 |
| WB-7 | NM | NM | NM | NM | NM | NM |
| WB-8 | 0.0 | 0.0 | 21.9 | 0 | 0 | 0.0 |
| WB-12 | 0.0 | 0.0 | 21.1 | 0 | 0 | 0.0 |
| WB-13 | 0.0 | 0.9 | 19.7 | 0 | 0 | 0.9 |
| WB-14 | 0.0 | 7.6 | 8.5 | 3 | 0 | 0.0 |
| WB-15 | 0.0 | 9.5 | 8.5 | 3 | 0 | 0.9 |
| EPL-1 | 0.0 | 0.7 | 20.3 | 0 | 0 | 0.2 |
| EPL-2 | 0.0 | 1.6 | 18.7 | 4 | 0 | 1.1 |
| EPL-3 | 0.0 | 3.4 | 16.7 | 4 | 0 | 0.0 |
| EPL-4 | 0.0 | 3.2 | 17.0 | 4 | 0 | 0.5 |
| EPL-5 | 0.0 | 5.0 | 13.9 | 4 | 0 | 0.5 |
| ENE-1 | 0.0 | 0.3 | 20.6 | 0 | 0 | 0.0 |

**Table 4**
**Soil Gas Survey Field Notes**
**Springfield Street School Complex**
**Providence, Rhode Island**
**August 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 | 6.0 | 9.6 | 4 | 0 | 0.0 |
| MG2 | 0.0 | 1.3 | 18.6 | 4 | 0 | 0.0 |
| MG3 | 0.0 | 5.3 | 12.8 | 4 | 0 | 0.0 |
| MG4 | 0.0 | 3.9 | 14.8 | 3 | 0 | 0.0 |
| MG5 | 0.0 | 1.4 | 18.6 | 4 | 0 | 0.0 |
| MPL2 | 0.0 | 10.6 | 3.3 | 4 | 0 | 0.0 |
| MPL3 | 0.0 | 9.7 | 5.3 | 4 | 0 | 0.0 |
| MPL5 | 0.0 | 10.2 | 4.9 | 4 | 0 | 0.0 |
| MPL6 | 0.0 | 11.8 | 6.5 | 4 | 0 | 0.0 |
| MPL7 | 0.0 | 9.3 | 8.3 | 4 | 0 | 1.3 |
| MPL8 | 0.0 | 7.6 | 9.3 | 4 | 0 | 1.2 |
| **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 75-80 F

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

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

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

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

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

FIGURE

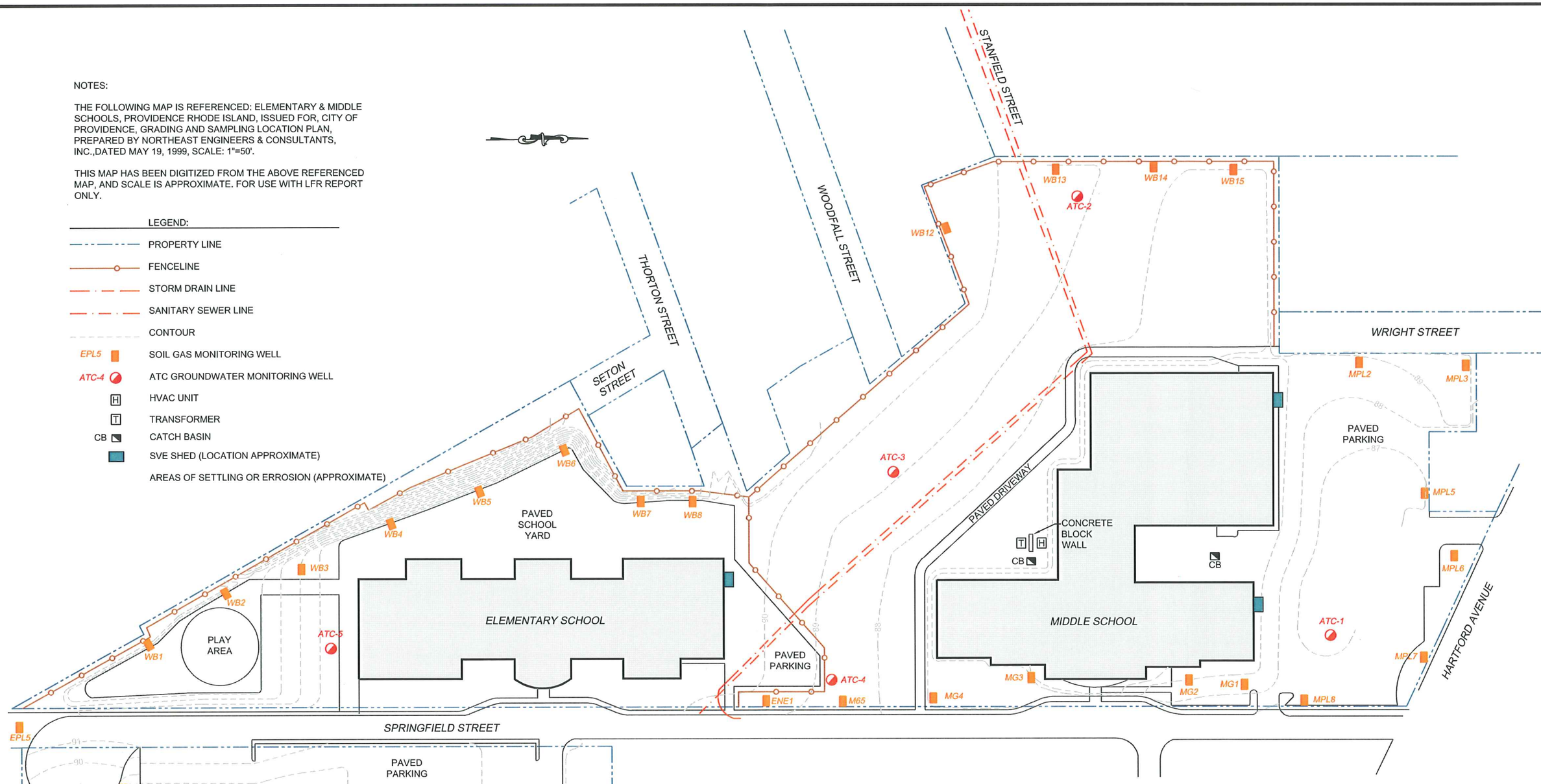
NOTES:

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
- EPL5 — SOIL GAS MONITORING WELL
- ATC-4 — 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**

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

# 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 9/4/2008

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-19090
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: SPRINGFIELD STREET

| FIELD SAMPLE # | LAB ID | MATRIX | SAMPLE DESCRIPTION | TEST | Subcontract Lab (if any) Cert. Nos. |
|---|---|---|---|---|---|
| ATC-1 | 08B34203 | GRND WATER | Not Specified | 8260 water | |
| ATC-4 | 08B34204 | GRND WATER | Not Specified | 8260 water | |
| ATC-5 | 08B34205 | GRND WATER | Not Specified | 8260 water | |
| MPL-6 | 08B34201 | AIR | Not Specified | to-14 ppbv | |
| MPL-6 | 08B34201 | AIR | Not Specified | to-14 ug/m3 | |
| *TRIP BLANK | 08B34206 | WATER OTHE | Not Specified | 8260 water | |
| WB-2 | 08B34202 | AIR | Not Specified | to-14 ppbv | |
| WB-2 | 08B34202 | AIR | Not Specified | to-14 ug/m3 | |

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REPORT DATE 9/4/2008

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-19090
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.

Comments :

LIMS BATCH NO. : LIMT-19090

In method 8260 water, 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 water, any reported result for trans-1,4-Dichloro-2-butene, p-Isopropyltoluene, n-Butylbenzene, Hexachlorobutadiene, Naphthalene, 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 TO-14, any reported result for 1,2-dichloropropane is estimated and likely to be biased on the low side based on continuing calibration bias.

In method TO-14, any reported result for trichlorofluoromethane is likely to be biased on the high side based on laboratory fortified blank recovery bias.

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.

Douglas Sheely 9/4/08
SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Douglas Sheeley
Laboratory Manager

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-1**

**Sample ID : 08B34203**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| Acetone | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Acrylonitrile | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| tert-Amylmethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromochloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromodichloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromoform | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromomethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Butanone (MEK) | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| tert-Butyl Alcohol | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| n-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| sec-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Carbon Disulfide | ug/l | ND | 3.0 | | 08/28/08 | LBD |
| Carbon Tetrachloride | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorodibromomethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Chloroethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloroform | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 4-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dibromo-3-Chloropropane | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2-Dibromoethane | ug/l | ND | 0.50 | | 08/28/08 | LBD |
| Dibromomethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,4-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,4-Dichloro-2-Butene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Dichlorodifluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | 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
LFR, INC. - RI
300 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886



Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-1**

**Sample ID : 08B34203**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| cis-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichloropropane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 2,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloropropene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| cis-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| trans-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Diethyl Ether | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Diisopropyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 1,4-Dioxane | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Ethyl Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Hexachlorobutadiene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 2-Hexanone | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Isopropylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| p-Isopropyltoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| MTBE | ug/l | 1.4 | 1.0 | | 08/28/08 | LBD |
| Methylene Chloride | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| MIBK | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Naphthalene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| n-Propylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Styrene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1,2-Tetrachloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2,2-Tetrachloroethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Tetrachloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Tetrahydrofuran | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Toluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2,3-Trichlorobenzene | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2,4-Trichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichlorofluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,2,3-Trichloropropane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | ND | 5.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-1**

**Sample ID : 08B34203**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| 1,2,4-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3,5-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Vinyl Chloride | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| m + p Xylene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| o-Xylene | ug/l | ND | 1.0 | | 08/28/08 | 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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WARWICK, RI 02886

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-4**

**Sample ID : 08B34204**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| Acetone | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Acrylonitrile | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| tert-Amylmethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromochloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromodichloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromoform | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromomethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Butanone (MEK) | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| tert-Butyl Alcohol | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| n-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| sec-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Carbon Disulfide | ug/l | ND | 3.0 | | 08/28/08 | LBD |
| Carbon Tetrachloride | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorobenzene | ug/l | 1.2 | 1.0 | | 08/28/08 | LBD |
| Chlorodibromomethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Chloroethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloroform | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 4-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dibromo-3-Chloropropane | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2-Dibromoethane | ug/l | ND | 0.50 | | 08/28/08 | LBD |
| Dibromomethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,4-Dichlorobenzene | ug/l | 2.1 | 1.0 | | 08/28/08 | LBD |
| trans-1,4-Dichloro-2-Butene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Dichlorodifluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-4**

**Sample ID : 08B34204**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| cis-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichloropropane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 2,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloropropene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| cis-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| trans-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Diethyl Ether | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Diisopropyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 1,4-Dioxane | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Ethyl Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Hexachlorobutadiene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 2-Hexanone | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Isopropylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| p-Isopropyltoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| MTBE | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Methylene Chloride | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| MIBK | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Naphthalene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| n-Propylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Styrene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1,2-Tetrachloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2,2-Tetrachloroethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Tetrachloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Tetrahydrofuran | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Toluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2,3-Trichlorobenzene | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2,4-Trichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichlorofluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,2,3-Trichloropropane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | ND | 5.0 | | 08/28/08 | 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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-4**

**Sample ID : 08B34204**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| 1,2,4-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3,5-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Vinyl Chloride | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| m + p Xylene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| o-Xylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-5**

**Sample ID : 08B34205**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| Acetone | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Acrylonitrile | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| tert-Amylmethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromochloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromodichloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromoform | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromomethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Butanone (MEK) | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| tert-Butyl Alcohol | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| n-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| sec-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Carbon Disulfide | ug/l | ND | 3.0 | | 08/28/08 | LBD |
| Carbon Tetrachloride | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorodibromomethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Chloroethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloroform | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 4-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dibromo-3-Chloropropane | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2-Dibromoethane | ug/l | ND | 0.50 | | 08/28/08 | LBD |
| Dibromomethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,4-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,4-Dichloro-2-Butene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Dichlorodifluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-5**

**Sample ID : 08B34205**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| cis-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichloropropane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 2,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloropropene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| cis-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| trans-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Diethyl Ether | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Diisopropyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 1,4-Dioxane | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Ethyl Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Hexachlorobutadiene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 2-Hexanone | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Isopropylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| p-Isopropyltoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| MTBE | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Methylene Chloride | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| MIBK | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Naphthalene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| n-Propylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Styrene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1,2-Tetrachloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2,2-Tetrachloroethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Tetrachloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Tetrahydrofuran | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Toluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2,3-Trichlorobenzene | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2,4-Trichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichlorofluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,2,3-Trichloropropane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | ND | 5.0 | | 08/28/08 | 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: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : ATC-5**

**Sample ID : 08B34205**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: GRND WATER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| 1,2,4-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3,5-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Vinyl Chloride | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| m + p Xylene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| o-Xylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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



Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : MPL-6**

**Sample ID : 08B34201**

‡Sampled : 8/26/2008
Not Specified
Sample Matrix: AIR
Sample Medium : TEDLAR BAG

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| to-14 ppbv | | | | EPA TO-14A | | |
| Benzene | PPBv | 1.0 | 0.25 | | 08/28/08 | TPH |
| Bromomethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Carbon Tetrachloride | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloroform | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloromethane | PPBv | 0.88 | 0.25 | | 08/28/08 | TPH |
| 1,2-Dibromoethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,3-Dichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,4-Dichlorobenzene | PPBv | 0.65 | 0.25 | | 08/28/08 | TPH |
| Dichlorodifluoromethane | PPBv | 0.78 | 0.25 | | 08/28/08 | TPH |
| 1,1-Dichloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichloroethane | PPBv | 2.0 | 0.25 | | 08/28/08 | TPH |
| 1,1-Dichloroethylene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| cis-1,2-Dichloroethylene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichloropropane | PPBv | 0.40 | 0.25 | | 08/28/08 | TPH |
| cis-1,3-Dichloropropene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| trans-1,3-Dichloropropene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichlorotetrafluoroethane (114) | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Ethylbenzene | PPBv | 3.9 | 0.25 | | 08/28/08 | TPH |
| Hexachlorobutadiene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Methylene Chloride | PPBv | 3.8 | 0.25 | | 08/28/08 | TPH |
| Styrene | PPBv | 3.0 | 0.25 | | 08/28/08 | TPH |
| 1,1,2,2-Tetrachloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Tetrachloroethylene | PPBv | 4.1 | 0.25 | | 08/28/08 | TPH |
| Toluene | PPBv | 64 | 0.25 | | 08/28/08 | TPH |
| 1,2,4-Trichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,1,1-Trichloroethane | PPBv | 0.27 | 0.25 | | 08/28/08 | TPH |
| 1,1,2-Trichloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Trichloroethylene | PPBv | 3.6 | 0.25 | | 08/28/08 | TPH |
| Trichlorofluoromethane (Freon 11) | PPBv | 1.3 | 0.25 | | 08/28/08 | TPH |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2,4-Trimethylbenzene | PPBv | 9.1 | 0.25 | | 08/28/08 | TPH |
| 1,3,5-Trimethylbenzene | PPBv | 3.7 | 0.25 | | 08/28/08 | TPH |

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

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : MPL-6**

**Sample ID : 08B34201**

‡Sampled : 8/26/2008
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 | 0.25 | | 08/28/08 | TPH |
| m/p-Xylene | PPBv | 11 | 0.50 | | 08/28/08 | TPH |
| o-Xylene | PPBv | 5.0 | 0.25 | | 08/28/08 | TPH |
| to-14 ug/m | | | | EPA TO-14A | | |
| Benzene | ug/m3 | 3.3 | 0.80 | | 08/28/08 | TPH |
| Bromomethane | ug/m3 | ND | 0.95 | | 08/28/08 | TPH |
| Carbon Tetrachloride | ug/m3 | ND | 1.6 | | 08/28/08 | TPH |
| Chlorobenzene | ug/m3 | ND | 1.2 | | 08/28/08 | TPH |
| Chloroethane | ug/m3 | ND | 0.65 | | 08/28/08 | TPH |
| Chloroform | ug/m3 | ND | 1.2 | | 08/28/08 | TPH |
| Chloromethane | ug/m3 | 1.8 | 0.50 | | 08/28/08 | TPH |
| 1,2-Dibromoethane | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,2-Dichlorobenzene | ug/m3 | ND | 1.5 | | 08/28/08 | TPH |
| 1,3-Dichlorobenzene | ug/m3 | ND | 1.5 | | 08/28/08 | TPH |
| 1,4-Dichlorobenzene | ug/m3 | 3.9 | 1.5 | | 08/28/08 | TPH |
| Dichlorodifluoromethane | ug/m3 | 3.9 | 1.3 | | 08/28/08 | TPH |
| 1,1-Dichloroethane | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| 1,2-Dichloroethane | ug/m3 | 8.3 | 1.0 | | 08/28/08 | TPH |
| 1,1-Dichloroethylene | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| cis-1,2-Dichloroethylene | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| 1,2-Dichloropropane | ug/m3 | 1.8 | 1.2 | | 08/28/08 | TPH |
| cis-1,3-Dichloropropene | ug/m3 | ND | 1.1 | | 08/28/08 | TPH |
| trans-1,3-Dichloropropene | ug/m3 | ND | 1.1 | | 08/28/08 | TPH |
| 1,2-Dichlorotetrafluoroethane (114) | ug/m3 | ND | 1.8 | | 08/28/08 | TPH |
| Ethylbenzene | ug/m3 | 17 | 1.1 | | 08/28/08 | TPH |
| Hexachlorobutadiene | ug/m3 | ND | 2.7 | | 08/28/08 | TPH |
| Methylene Chloride | ug/m3 | 13 | 0.85 | | 08/28/08 | TPH |
| Styrene | ug/m3 | 13 | 1.1 | | 08/28/08 | TPH |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 1.7 | | 08/28/08 | TPH |
| Tetrachloroethylene | ug/m3 | 28 | 1.7 | | 08/28/08 | TPH |
| Toluene | ug/m3 | 240 | 0.95 | | 08/28/08 | TPH |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,1,1-Trichloroethane | ug/m3 | 1.5 | 1.4 | | 08/28/08 | TPH |
| 1,1,2-Trichloroethane | ug/m3 | ND | 1.4 | | 08/28/08 | TPH |
| Trichloroethylene | ug/m3 | 19 | 1.4 | | 08/28/08 | TPH |

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WARWICK, RI 02886

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : MPL-6**

**Sample ID : 08B34201**

‡Sampled : 8/26/2008
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 | 7.4 | 1.4 | | 08/28/08 | TPH |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,2,4-Trimethylbenzene | ug/m3 | 45 | 1.3 | | 08/28/08 | TPH |
| 1,3,5-Trimethylbenzene | ug/m3 | 18 | 1.3 | | 08/28/08 | TPH |
| Vinyl Chloride | ug/m3 | ND | 0.65 | | 08/28/08 | TPH |
| m/p-Xylene | ug/m3 | 48 | 2.2 | | 08/28/08 | TPH |
| o-Xylene | ug/m3 | 22 | 1.1 | | 08/28/08 | TPH |

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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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : TRIP BLANK**

**Sample ID : *08B34206**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: WATER OTHER

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| 8260 water | | | | SW846 8260 | | |
| Acetone | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Acrylonitrile | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| tert-Amylmethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromochloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromodichloromethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromoform | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Bromomethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Butanone (MEK) | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| tert-Butyl Alcohol | ug/l | ND | 20.0 | | 08/28/08 | LBD |
| n-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| sec-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| tert-Butylethyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Carbon Disulfide | ug/l | ND | 3.0 | | 08/28/08 | LBD |
| Carbon Tetrachloride | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Chlorodibromomethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Chloroethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloroform | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Chloromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 2-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 4-Chlorotoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dibromo-3-Chloropropane | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2-Dibromoethane | ug/l | ND | 0.50 | | 08/28/08 | LBD |
| Dibromomethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,4-Dichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| trans-1,4-Dichloro-2-Butene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Dichlorodifluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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ANALYTICAL LABORATORY

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



Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : TRIP BLANK**

**Sample ID : *08B34206**

‡Sampled : 8/26/2008
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 | | 08/28/08 | LBD |
| trans-1,2-Dichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,3-Dichloropropane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 2,2-Dichloropropane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1-Dichloropropene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| cis-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| trans-1,3-Dichloropropene | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Diethyl Ether | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| Diisopropyl Ether | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| 1,4-Dioxane | ug/l | ND | 50.0 | | 08/28/08 | LBD |
| Ethyl Benzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Hexachlorobutadiene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 2-Hexanone | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Isopropylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| p-Isopropyltoluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| MTBE | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Methylene Chloride | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| MIBK | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Naphthalene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| n-Propylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Styrene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1,2-Tetrachloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2,2-Tetrachloroethane | ug/l | ND | 0.5 | | 08/28/08 | LBD |
| Tetrachloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Tetrahydrofuran | ug/l | ND | 10.0 | | 08/28/08 | LBD |
| Toluene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,2,3-Trichlorobenzene | ug/l | ND | 5.0 | | 08/28/08 | LBD |
| 1,2,4-Trichlorobenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,1-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloroethane | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichloroethylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Trichlorofluoromethane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,2,3-Trichloropropane | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | ND | 5.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : TRIP BLANK**

**Sample ID : *08B34206**

‡Sampled : 8/26/2008
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 | | 08/28/08 | LBD |
| 1,3,5-Trimethylbenzene | ug/l | ND | 1.0 | | 08/28/08 | LBD |
| Vinyl Chloride | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| m + p Xylene | ug/l | ND | 2.0 | | 08/28/08 | LBD |
| o-Xylene | ug/l | ND | 1.0 | | 08/28/08 | LBD |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : WB-2**

**Sample ID : 08B34202**

‡Sampled : 8/26/2008
Not Specified

Sample Matrix: AIR
Sample Medium : TEDLAR BAG

| | Units | Results | RL | Method | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| to-14 ppbv | | | | EPA TO-14A | | |
| Benzene | PPBv | 0.46 | 0.25 | | 08/28/08 | TPH |
| Bromomethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Carbon Tetrachloride | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloroform | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Chloromethane | PPBv | 0.56 | 0.25 | | 08/28/08 | TPH |
| 1,2-Dibromoethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,3-Dichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,4-Dichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Dichlorodifluoromethane | PPBv | 0.66 | 0.25 | | 08/28/08 | TPH |
| 1,1-Dichloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichloroethane | PPBv | 0.90 | 0.25 | | 08/28/08 | TPH |
| 1,1-Dichloroethylene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| cis-1,2-Dichloroethylene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichloropropane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| cis-1,3-Dichloropropene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| trans-1,3-Dichloropropene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2-Dichlorotetrafluoroethane (114) | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Ethylbenzene | PPBv | 1.3 | 0.25 | | 08/28/08 | TPH |
| Hexachlorobutadiene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Methylene Chloride | PPBv | 3.0 | 0.25 | | 08/28/08 | TPH |
| Styrene | PPBv | 1.5 | 0.25 | | 08/28/08 | TPH |
| 1,1,2,2-Tetrachloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Tetrachloroethylene | PPBv | 1.6 | 0.25 | | 08/28/08 | TPH |
| Toluene | PPBv | 30 | 0.25 | | 08/28/08 | TPH |
| 1,2,4-Trichlorobenzene | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,1,1-Trichloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,1,2-Trichloroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| Trichloroethylene | PPBv | 2.8 | 0.25 | | 08/28/08 | TPH |
| Trichlorofluoromethane (Freon 11) | PPBv | 0.54 | 0.25 | | 08/28/08 | TPH |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | PPBv | ND | 0.25 | | 08/28/08 | TPH |
| 1,2,4-Trimethylbenzene | PPBv | 1.6 | 0.25 | | 08/28/08 | TPH |
| 1,3,5-Trimethylbenzene | PPBv | 0.67 | 0.25 | | 08/28/08 | TPH |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : WB-2**

**Sample ID : 08B34202**

‡Sampled : 8/26/2008
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 | 0.25 | | 08/28/08 | TPH |
| m/p-Xylene | PPBv | 3.7 | 0.50 | | 08/28/08 | TPH |
| o-Xylene | PPBv | 1.5 | 0.25 | | 08/28/08 | TPH |
| to-14 ug/m | | | | EPA TO-14A | | |
| Benzene | ug/m3 | 1.5 | 0.80 | | 08/28/08 | TPH |
| Bromomethane | ug/m3 | ND | 0.95 | | 08/28/08 | TPH |
| Carbon Tetrachloride | ug/m3 | ND | 1.6 | | 08/28/08 | TPH |
| Chlorobenzene | ug/m3 | ND | 1.2 | | 08/28/08 | TPH |
| Chloroethane | ug/m3 | ND | 0.65 | | 08/28/08 | TPH |
| Chloroform | ug/m3 | ND | 1.2 | | 08/28/08 | TPH |
| Chloromethane | ug/m3 | 1.2 | 0.50 | | 08/28/08 | TPH |
| 1,2-Dibromoethane | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,2-Dichlorobenzene | ug/m3 | ND | 1.5 | | 08/28/08 | TPH |
| 1,3-Dichlorobenzene | ug/m3 | ND | 1.5 | | 08/28/08 | TPH |
| 1,4-Dichlorobenzene | ug/m3 | ND | 1.5 | | 08/28/08 | TPH |
| Dichlorodifluoromethane | ug/m3 | 3.3 | 1.3 | | 08/28/08 | TPH |
| 1,1-Dichloroethane | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| 1,2-Dichloroethane | ug/m3 | 3.6 | 1.0 | | 08/28/08 | TPH |
| 1,1-Dichloroethylene | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| cis-1,2-Dichloroethylene | ug/m3 | ND | 1.0 | | 08/28/08 | TPH |
| 1,2-Dichloropropane | ug/m3 | ND | 1.2 | | 08/28/08 | TPH |
| cis-1,3-Dichloropropene | ug/m3 | ND | 1.1 | | 08/28/08 | TPH |
| trans-1,3-Dichloropropene | ug/m3 | ND | 1.1 | | 08/28/08 | TPH |
| 1,2-Dichlorotetrafluoroethane (114) | ug/m3 | ND | 1.8 | | 08/28/08 | TPH |
| Ethylbenzene | ug/m3 | 5.7 | 1.1 | | 08/28/08 | TPH |
| Hexachlorobutadiene | ug/m3 | ND | 2.7 | | 08/28/08 | TPH |
| Methylene Chloride | ug/m3 | 10 | 0.85 | | 08/28/08 | TPH |
| Styrene | ug/m3 | 6.3 | 1.1 | | 08/28/08 | TPH |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 1.7 | | 08/28/08 | TPH |
| Tetrachloroethylene | ug/m3 | 11 | 1.7 | | 08/28/08 | TPH |
| Toluene | ug/m3 | 110 | 0.95 | | 08/28/08 | TPH |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,1,1-Trichloroethane | ug/m3 | ND | 1.4 | | 08/28/08 | TPH |
| 1,1,2-Trichloroethane | ug/m3 | ND | 1.4 | | 08/28/08 | TPH |
| Trichloroethylene | ug/m3 | 15 | 1.4 | | 08/28/08 | TPH |

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



Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

**Field Sample # : WB-2**

**Sample ID : 08B34202**

‡Sampled : 8/26/2008
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 | 3.1 | 1.4 | | 08/28/08 | TPH |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/m3 | ND | 1.9 | | 08/28/08 | TPH |
| 1,2,4-Trimethylbenzene | ug/m3 | 7.9 | 1.3 | | 08/28/08 | TPH |
| 1,3,5-Trimethylbenzene | ug/m3 | 3.3 | 1.3 | | 08/28/08 | TPH |
| Vinyl Chloride | ug/m3 | ND | 0.65 | | 08/28/08 | TPH |
| m/p-Xylene | ug/m3 | 16 | 2.2 | | 08/28/08 | TPH |
| o-Xylene | ug/m3 | 6.6 | 1.1 | | 08/28/08 | TPH |

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

9/4/2008


Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET
Date Received: 8/27/2008

LIMS-BAT #: LIMT-19090
Job Number: 081-12152-00

The following notes were attached to the reported analysis :

Sample ID: * 08B34206
Analysis: 8260 water

Sample vial contained headspace.

** END OF REPORT **

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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: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: BATCH-14953

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| 08B34201 | | | | | |
| | 4-Bromofluorobenzene | Surrogate Recovery | 95.62 | % | 70-130 |
| 08B34202 | | | | | |
| | 4-Bromofluorobenzene | Surrogate Recovery | 91.87 | % | 70-130 |
| BLANK-122707 | | | | | |
| | 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 | <0.27 | 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 | |

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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: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| 08B34203 | | | | | |
| | 1,2-Dichloroethane-d4 | Surrogate Recovery | 107.0 | % | 70-130 |
| | Toluene-d8 | Surrogate Recovery | 101.4 | % | 70-130 |
| | Bromofluorobenzene | Surrogate Recovery | 100.7 | % | 70-130 |
| 08B34204 | | | | | |
| | 1,2-Dichloroethane-d4 | Surrogate Recovery | 106.6 | % | 70-130 |
| | Toluene-d8 | Surrogate Recovery | 100.8 | % | 70-130 |
| | Bromofluorobenzene | Surrogate Recovery | 99.9 | % | 70-130 |
| 08B34205 | | | | | |
| | 1,2-Dichloroethane-d4 | Surrogate Recovery | 108.4 | % | 70-130 |
| | Toluene-d8 | Surrogate Recovery | 99.9 | % | 70-130 |
| | Bromofluorobenzene | Surrogate Recovery | 98.3 | % | 70-130 |
| 08B34206 | | | | | |
| | 1,2-Dichloroethane-d4 | Surrogate Recovery | 108.0 | % | 70-130 |
| | Toluene-d8 | Surrogate Recovery | 99.5 | % | 70-130 |
| | Bromofluorobenzene | Surrogate Recovery | 99.0 | % | 70-130 |
| BLANK-122591 | | | | | |
| | 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 | <2.0 | 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 | <5.0 | 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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| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| BLANK-122591 | | | | | |
| | Methylene Chloride | Blank | <5.0 | ug/l | |
| | Chlorobenzene | Blank | <1.0 | ug/l | |
| | Chloromethane | Blank | <2.0 | ug/l | |
| | Bromomethane | Blank | <2.0 | 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 | <1.0 | 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 | <3.0 | 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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Sample Matrix Spikes and Matrix Spike Duplicates

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

Report Date: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| BLANK-122591 | | | | | |
| | 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-84308 | | | | | |
| | Acetone | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 87.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 87.5 | % | 70-160 |
| | Benzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.7 | % | 70-130 |
| | Carbon Tetrachloride | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.9 | % | 70-130 |
| | Chloroform | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 101.9 | % | 70-130 |
| | 1,2-Dichloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 103.3 | % | 70-130 |
| | 1,4-Dichlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.9 | % | 70-130 |
| | Ethyl Benzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.8 | % | 70-130 |
| | 2-Butanone (MEK) | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 90.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 90.7 | % | 40-160 |
| | MIBK | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 90.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 90.3 | % | 70-160 |
| | Naphthalene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 83.8 | % | 40-130 |
| | Styrene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.1 | % | 70-130 |
| | Tetrachloroethylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.4 | % | 70-160 |
| | Toluene | Lab Fort Blank Amt. | 10.0 | ug/l | |

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Method Blanks

Report Date: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| LFBLANK-84308 | | | | | |
| | Toluene | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.9 | % | 70-130 |
| | 1,1,1-Trichloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.0 | ug/l | |
| | | Lab Fort Blk. % Rec. | 100.8 | % | 70-130 |
| | Trichloroethylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.2 | ug/l | |
| | | Lab Fort Blk. % Rec. | 92.8 | % | 70-130 |
| | 1,1,2-Trichloro-1,2,2-Trifluoroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.8 | % | 70-130 |
| | Trichlorofluoromethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 97.3 | % | 70-130 |
| | o-Xylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 91.6 | % | 70-130 |
| | m + p Xylene | Lab Fort Blank Amt. | 20.0 | ug/l | |
| | | Lab Fort Blk. Found | 19.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.6 | % | 70-130 |
| | 1,2-Dichlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.2 | ug/l | |
| | | Lab Fort Blk. % Rec. | 92.9 | % | 70-130 |
| | 1,3-Dichlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 94.6 | % | 70-130 |
| | 1,1-Dichloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.6 | % | 70-130 |
| | 1,1-Dichloroethylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 99.0 | % | 70-130 |
| | 1,4-Dioxane | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 82.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 82.4 | % | 40-130 |
| | MTBE | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.4 | % | 70-130 |
| | trans-1,2-Dichloroethylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 104.7 | % | 70-130 |
| | Vinyl Chloride | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.4 | ug/l | |

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**QC SUMMARY REPORT**

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BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

Report Date: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| LFBLANK-84308 | | | | | |
| | Vinyl Chloride | Lab Fort Blk. % Rec. | 84.3 | % | 40-160 |
| | Methylene Chloride | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 97.4 | % | 70-130 |
| | Chlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.8 | % | 70-130 |
| | Chloromethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 7.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 79.0 | % | 40-160 |
| | Bromomethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 85.8 | % | 40-160 |
| | Chloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 93.1 | % | 70-130 |
| | cis-1,3-Dichloropropene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.6 | % | 70-130 |
| | trans-1,3-Dichloropropene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 101.9 | % | 70-130 |
| | Chlorodibromomethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.1 | % | 70-130 |
| | 1,1,2-Trichloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 97.3 | % | 70-130 |
| | Bromoform | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 89.0 | % | 70-130 |
| | 1,1,2,2-Tetrachloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.2 | ug/l | |
| | | Lab Fort Blk. % Rec. | 92.5 | % | 70-130 |
| | 2-Chlorotoluene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 93.8 | % | 70-130 |
| | Hexachlorobutadiene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 91.4 | % | 70-130 |
| | Isopropylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 97.4 | % | 70-130 |

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| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| LFBLANK-84308 | | | | | |
| | p-Isopropyltoluene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 95.7 | % | 70-130 |
| | n-Propylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.1 | % | 70-130 |
| | sec-Butylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 91.6 | % | 70-130 |
| | tert-Butylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.2 | ug/l | |
| | | Lab Fort Blk. % Rec. | 92.1 | % | 70-130 |
| | 1,2,3-Trichlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 94.7 | % | 70-130 |
| | 1,2,4-Trichlorobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 91.6 | % | 70-130 |
| | 1,2,4-Trimethylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.4 | % | 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. | 97.2 | % | 70-130 |
| | Dibromomethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 93.9 | % | 70-130 |
| | cis-1,2-Dichloroethylene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.4 | % | 70-130 |
| | 4-Chlorotoluene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 94.9 | % | 70-130 |
| | 1,1-Dichloropropene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 101.4 | % | 70-130 |
| | 1,2-Dichloropropane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.2 | ug/l | |
| | | Lab Fort Blk. % Rec. | 92.9 | % | 70-130 |
| | 1,3-Dichloropropane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.8 | % | 70-130 |
| | 2,2-Dichloropropane | Lab Fort Blank Amt. | 10.0 | ug/l | |

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BATCH QC: Lab fortified Blanks and Duplicates
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Report Date: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| LFBLANK-84308 | | | | | |
| | 2,2-Dichloropropane | Lab Fort Blk. Found | 10.0 | ug/l | |
| | | Lab Fort Blk. % Rec. | 100.2 | % | 40-130 |
| | 1,1,1,2-Tetrachloroethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.5 | % | 70-130 |
| | 1,2,3-Trichloropropane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 89.1 | % | 70-130 |
| | n-Butylbenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.0 | ug/l | |
| | | Lab Fort Blk. % Rec. | 90.9 | % | 70-130 |
| | Dichlorodifluoromethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 6.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 67.0 | % | 40-160 |
| | Bromochloromethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.8 | ug/l | |
| | | Lab Fort Blk. % Rec. | 98.7 | % | 70-130 |
| | Bromobenzene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.4 | ug/l | |
| | | Lab Fort Blk. % Rec. | 94.6 | % | 70-130 |
| | Acrylonitrile | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 97.2 | % | 70-130 |
| | Carbon Disulfide | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 12.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 121.9 | % | 70-130 |
| | 2-Hexanone | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 87.5 | ug/l | |
| | | Lab Fort Blk. % Rec. | 87.5 | % | 70-160 |
| | trans-1,4-Dichloro-2-Butene | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 7.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 79.7 | % | 70-130 |
| | Diethyl Ether | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.6 | ug/l | |
| | | Lab Fort Blk. % Rec. | 96.8 | % | 70-130 |
| | Bromodichloromethane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 93.6 | % | 70-130 |
| | 1,2-Dibromo-3-Chloropropane | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.7 | ug/l | |
| | | Lab Fort Blk. % Rec. | 87.4 | % | 70-130 |
| | 1,2-Dibromoethane | Lab Fort Blank Amt. | 10.00 | ug/l | |
| | | Lab Fort Blk. Found | 9.46 | 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

Report Date: 9/4/2008 Lims Bat # : LIMT-19090 

QC Batch Number: GCMS/VOL-20273

| Sample Id | Analysis | QC Analysis | Values | Units | Limits |
|---|---|---|---|---|---|
| LFBLANK-84308 | | | | | |
| | 1,2-Dibromoethane | Lab Fort Blk. % Rec. | 94.60 | % | 70-130 |
| | Tetrahydrofuran | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 8.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 89.9 | % | 70-130 |
| | tert-Butyl Alcohol | Lab Fort Blank Amt. | 100.0 | ug/l | |
| | | Lab Fort Blk. Found | 86.3 | ug/l | |
| | | Lab Fort Blk. % Rec. | 86.3 | % | 40-160 |
| | Diisopropyl Ether | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.1 | ug/l | |
| | | Lab Fort Blk. % Rec. | 101.1 | % | 70-130 |
| | tert-Butylethyl Ether | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 10.0 | ug/l | |
| | | Lab Fort Blk. % Rec. | 100.9 | % | 70-160 |
| | tert-Amylmethyl Ether | Lab Fort Blank Amt. | 10.0 | ug/l | |
| | | Lab Fort Blk. Found | 9.9 | ug/l | |
| | | Lab Fort Blk. % Rec. | 99.3 | % | 70-130 |

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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



## 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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Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

# AIR SAMPLE CHAIN OF CUSTODY RECORD

Limit # 19090



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

Telephone: (401) 738-3887
Project # 081-12157-00
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

| Field ID | Sample Description | Media | Lab # 08B | Date Sampled Start Date Time | Date Sampled Stop Date Time | ONLY USE WHEN USING PUMPS: Total Minutes Sampled | Flow Rate $M^3$/Min. or L / Min. | Volume Liters or $M^3$ | Matrix Code* | ANALYSIS REQUESTED | | | | " Hg Initial pressure | " Hg Final pressure | " Hg Lab Receipt pressure | Summa Canister ID | Flow Controller ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPL-6 | | 34201 | 8/26/08 | 12:50 | | | | SG | X | | | | | | | | |
| | WB-2 | | 34202 | 8/26/08 | 15:45 | | | | SG | X | | | | | | | | |
| | ATC-1 | | 34203 | 8/26/08 | 16:30 | | | | GW | | X | | | | | | | |
| | ATC-4 | | 34204 | 8/26/08 | 15:30 | | | | GW | | X | | | | | | | |
| | ATC-5 | | 34205 | 8/26/08 | 14:30 | | | | GW | | X | | | | | | | |
| | TRIP BLANK | | 34206 | 8/26/08 | — | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Please fill out completely, sign, date and retain the yellow copy for your record.
Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Laboratory Comments:

CLIENT COMMENTS:
GW HCL preserved VOAs 7 in total

| | | |
|---|---|---|
| Relinquished by: (signature) | Date/Time: 8/26/08 18:10 | |
| Received by: (signature) | Date/Time: 8-27-08 1600 | |
| Relinquished by: (signature) | Date/Time: 8-27-08 1845 | |
| Received by: (signature) Temp 3°C | Date/Time: 8/27/08 18:45 | |

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

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

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

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

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

*AIHA, NELAC & WBE/DBE Certified*

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

# Sample Receipt Checklist

CLIENT NAME: LFR RECEIVED BY: KP DATE: 8/27/08

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 [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

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

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

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

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

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

8) Location where samples are stored: 19B

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 | 7 | Brass Sleeves | |
| Colisure / bacteria bottle | | Tubes | |
| Dissolved Oxygen bottle | | Summa Cans | 2 (KD) |
| Flashpoint bottle | | Regulators | |
| Encore | | Other | 2 tedlars |
| | | | |

Laboratory Comments:

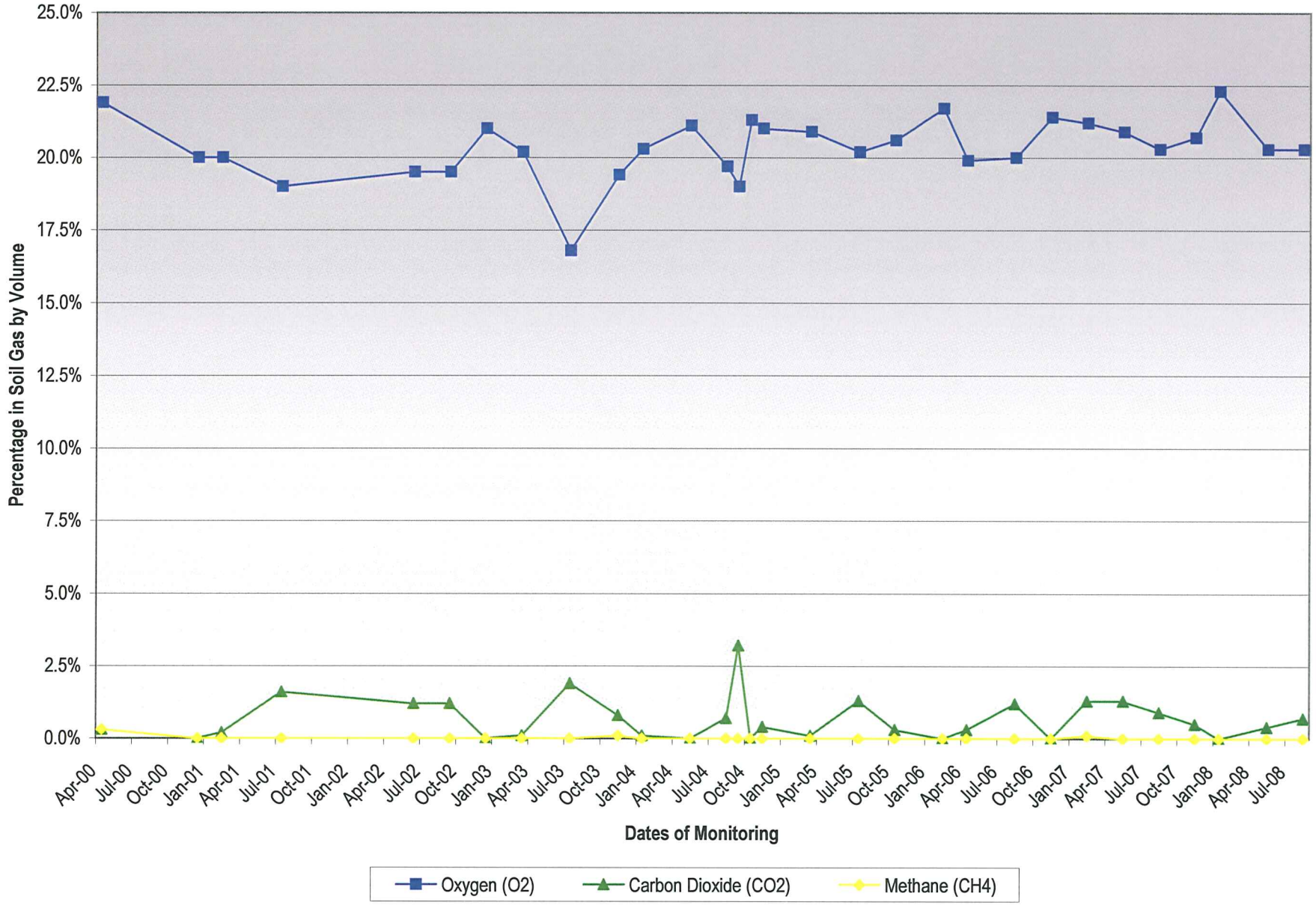
40 mL vials: # HCl 7 # Methanol _____
# Bisulfate _____ # DI Water _____ Time and Date Frozen: _____
# Thiosulfate _____ Unpreserved _____

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

# Attachment C

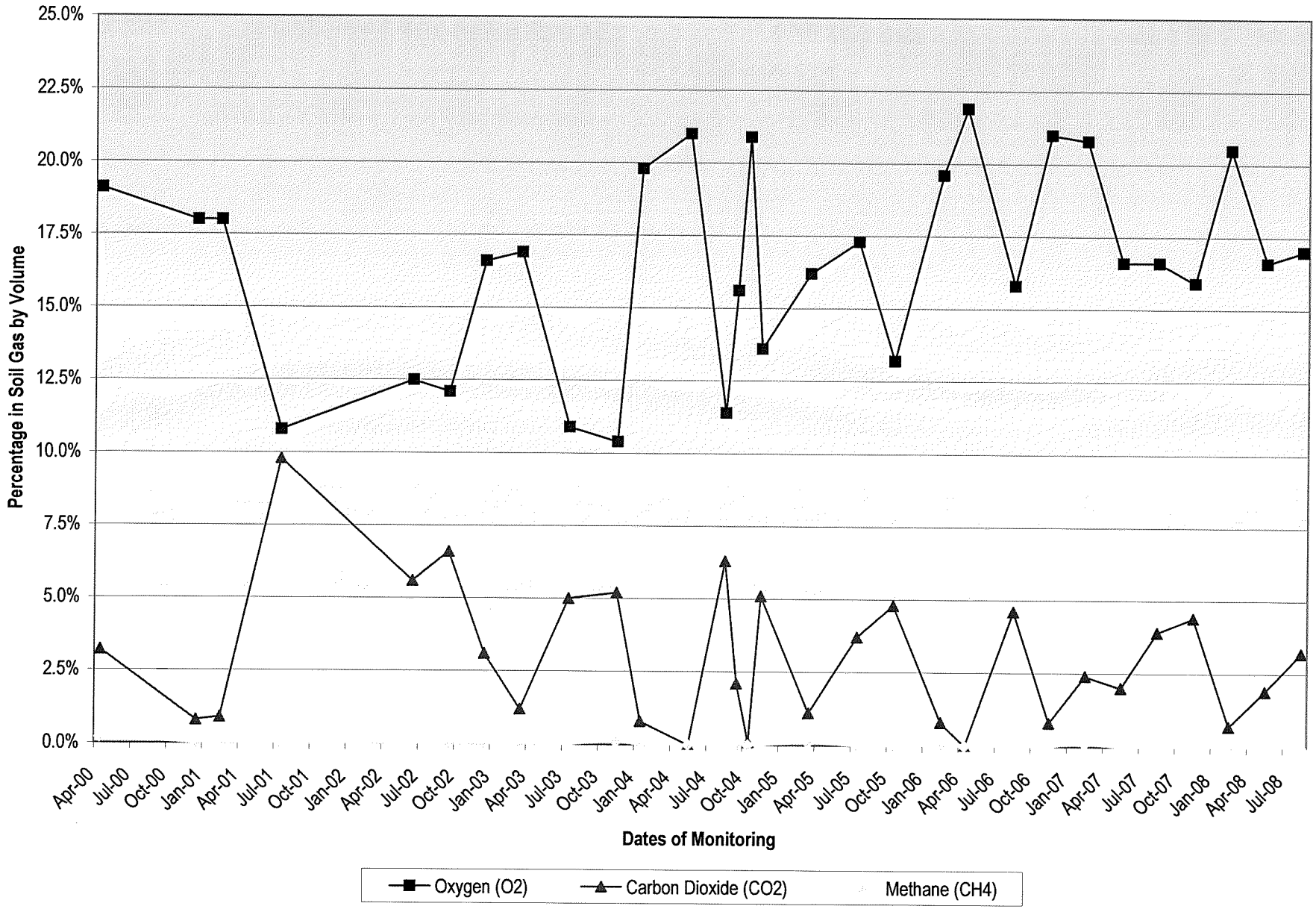
# Soil Gas Graphs

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



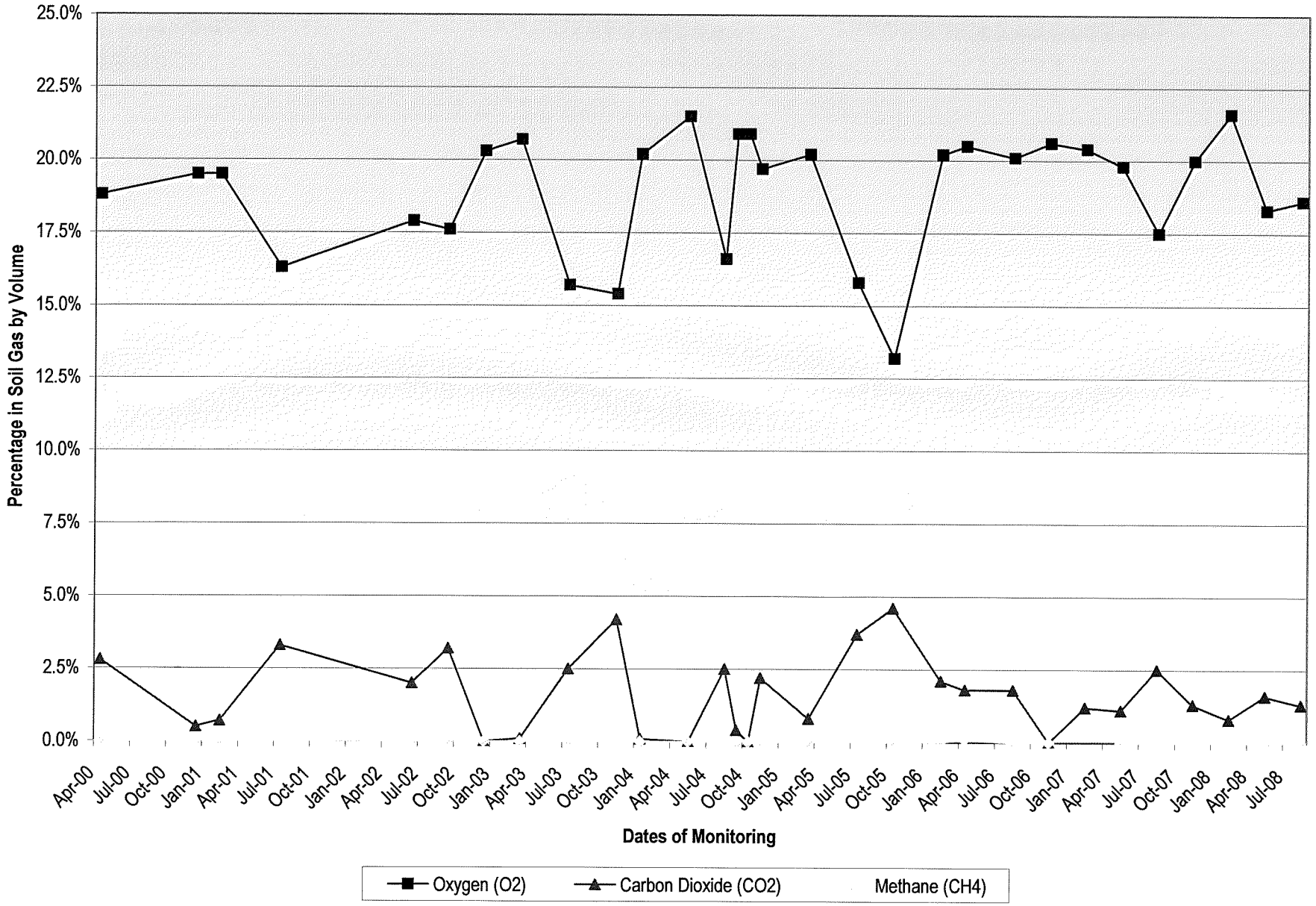

H:\Active Jobs\081-12152\Monitoring Trends\Soil Gas Trends-8-2008.xls\EPL1

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



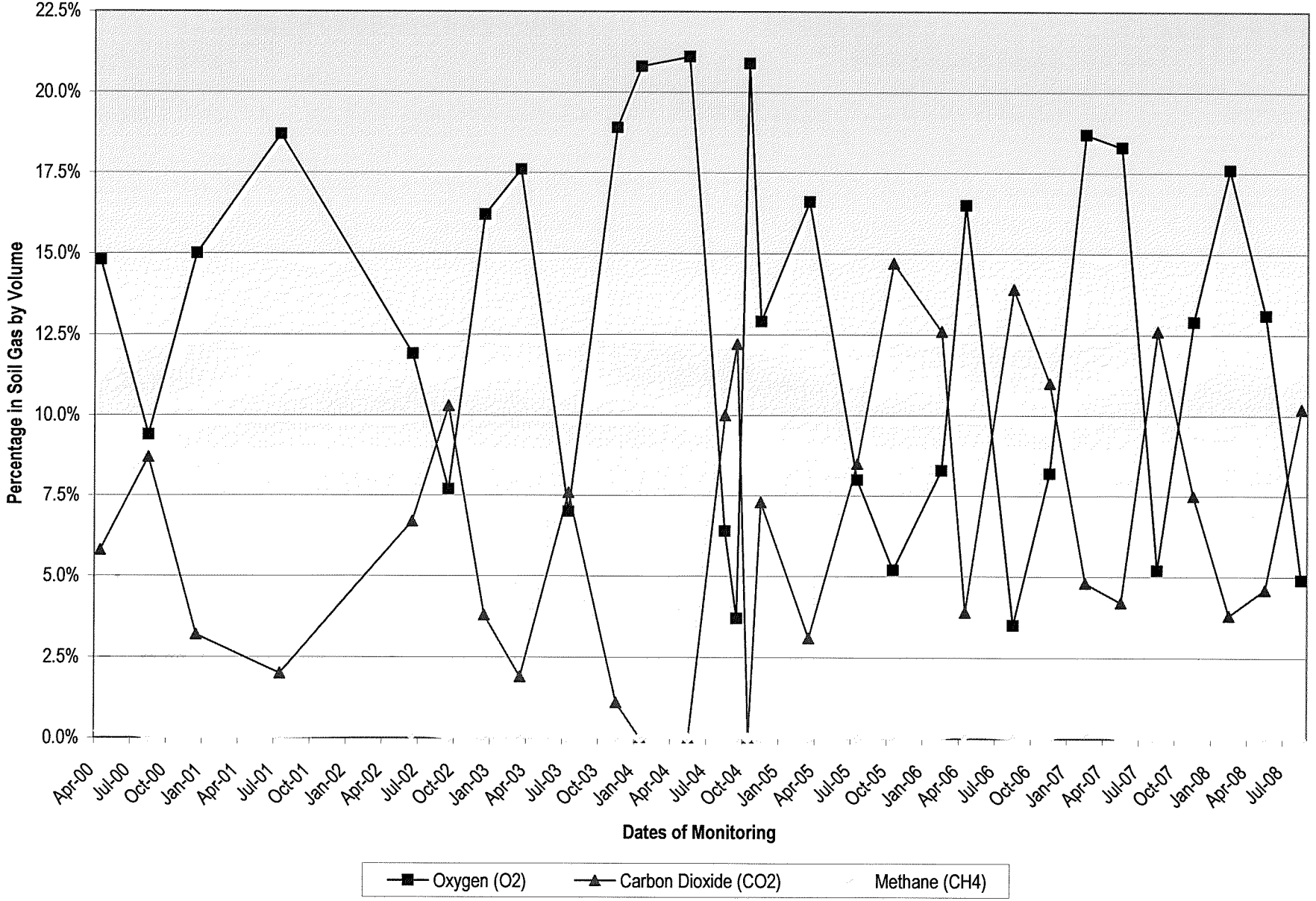

H:\Active Jobs\081-12152\Monitoring Trends\Soil Gas Trends-8-2008.xls\EPL4

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



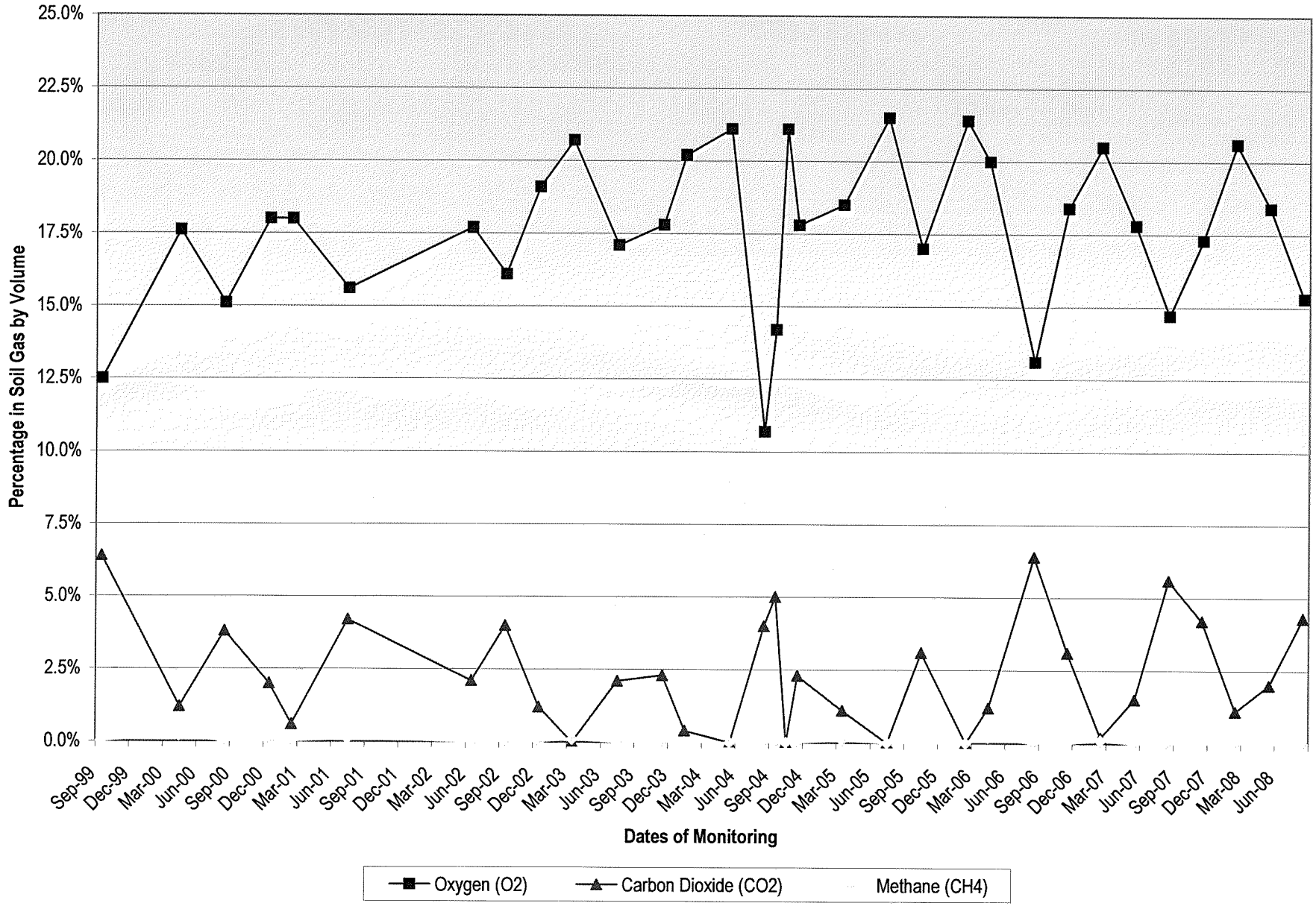

H:\Active Jobs\081-12152\Monitoring Trends\Soil Gas Trends-8-2008.xls\MG2

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



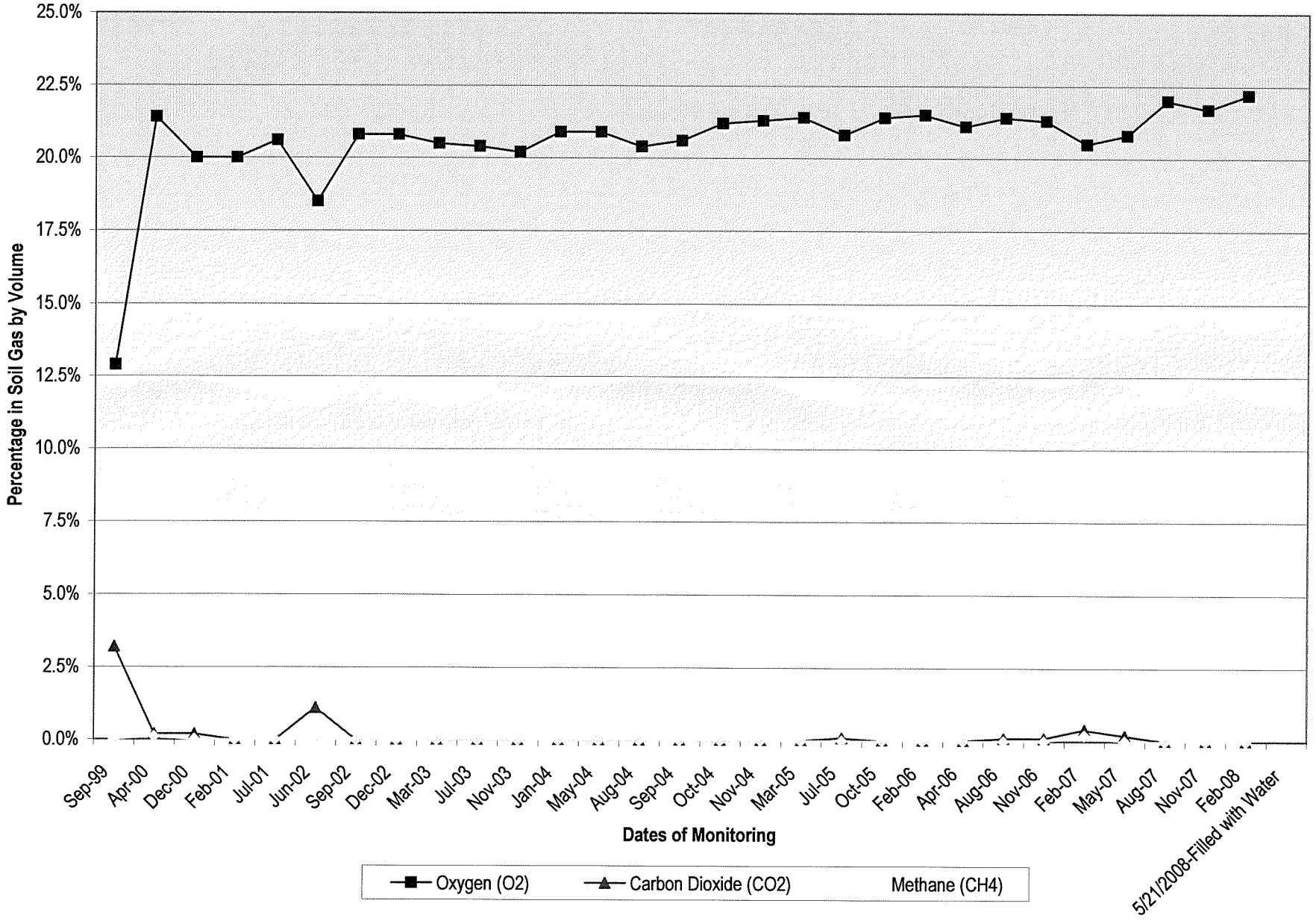

H:\Active Jobs\081-12152\Monitoring Trends\Soil Gas Trends-8-2008.xls\MPL5

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




H:\Active Jobs\081-12152\Monitoring Trends\Soil Gas Trends-8-2008.xls\WB1

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

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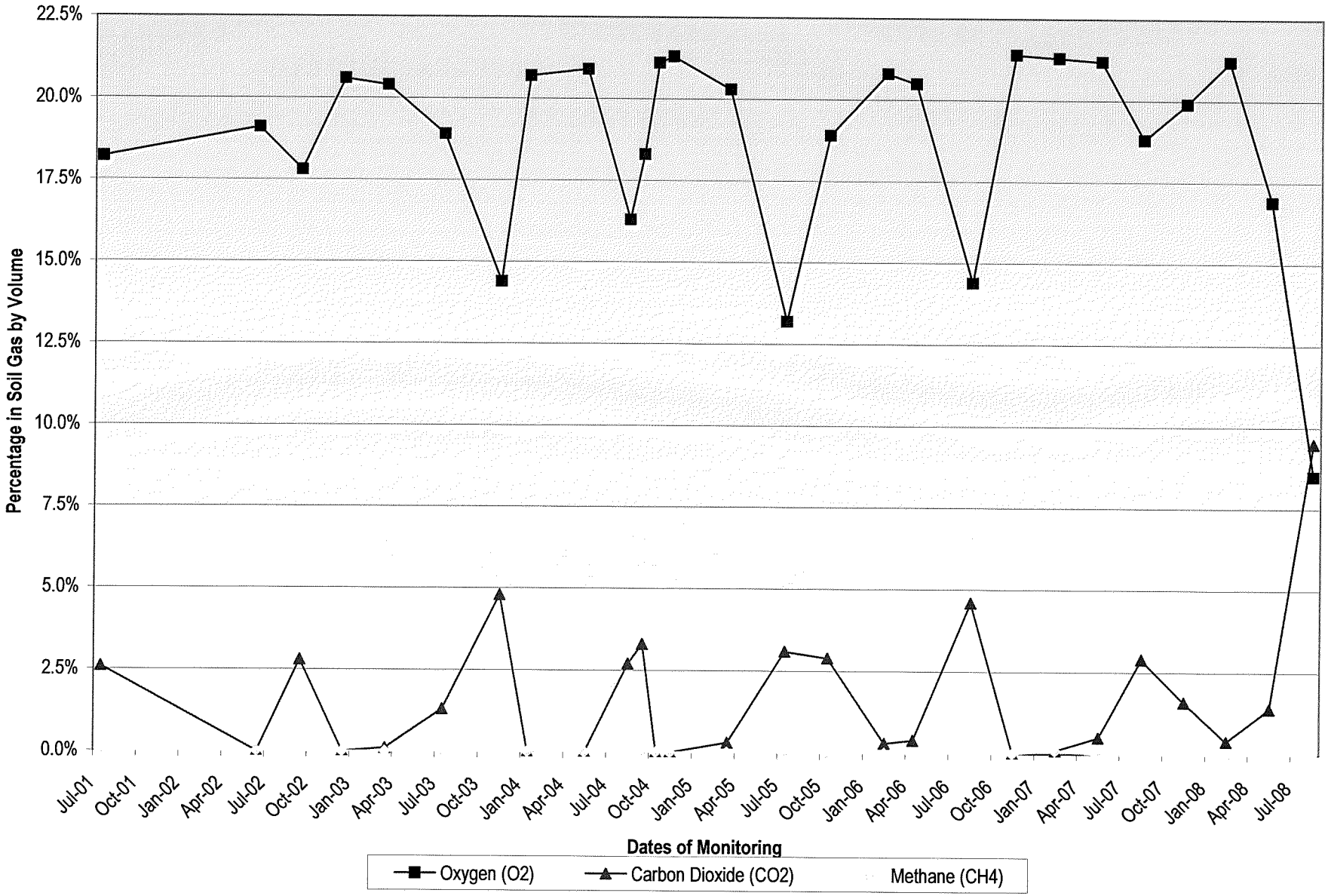
**Soil Gas Well WB15**
**Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time**
**Springfield Street School Complex**
**Providence, Rhode Island**

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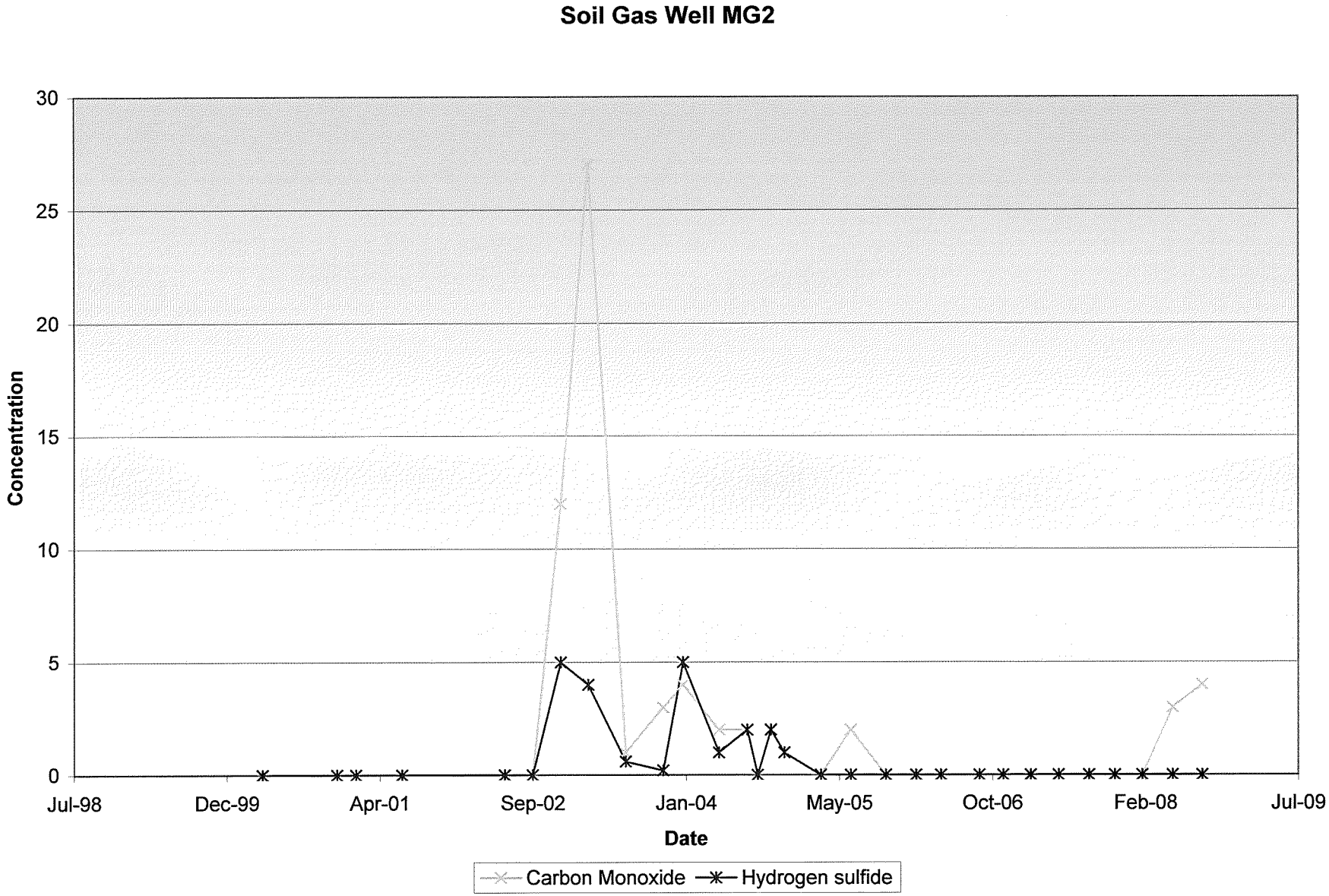
Soil Gas Well MG2
30
25
20
15
10
5
0
Concentration
Jul-98
Dec-99
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Date
Carbon Monoxide
Hydrogen sulfide