

**QUARTERLY MONITORING REPORT
Springfield Street School Complex
Providence, Rhode Island**

**Project No. 081-12152-02
October 2005 Monitoring Round**

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

Prepared by
LFR Levine·Fricke
300 Metro Center Boulevard
Suite 250
Warwick, RI 02886



November 15, 2005

081-12152-02

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 - October 2005 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring was conducted from October 26 through 28, 2005 at the above referenced site. 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.

Results of monitoring are provided in the following sections and in the attachments.

COVER MONITORING

LFR conducted a visual survey of the site 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. We identified two areas of concern, however, during the visual inspection. Several holes were observed along the west wall of the Middle School, near the transformer and HVAC system. The Providence School Department was notified of the existence of the holes, and the holes were repaired by November 9, 2005. Photographs are attached as Attachment E.

The other area of concern noted during the Site inspection was the area around the storm water catch basin in the courtyard next to the auditorium / cafeteria of the Middle School. Settling around the catch basin has caused the catch basin to be elevated above the surrounding pavement, and the asphalt is deteriorating. Providence School personnel attempted to patch the deteriorated asphalt using cold patch, but found that cold patch inadequate for the project.

A contractor has visited the Site and has been asked to provide a proposal for repairing the catch basin. The project may require excavating around the catch basin and repairing the grade in the area. A more detailed plan and schedule for repairs will be submitted to RIDEM when it is available, but not later than November 30, 2005.

Although the soil beneath the asphalt is exposed, this does not represent a threat to users of the property. The Remedial Action Work Plan specified that during construction of the cap in areas to be covered with asphalt, the asphalt would be underlain with at least one foot of gravel subbase. Therefore, the soil that has been exposed due to the broken asphalt is the clean gravel that was placed prior to placement of the asphalt for the cap.

SUB-SLAB VENTILATION SYSTEM

As previously reported to RIDEM, the sub-slab ventilation system blower in the front shed at the middle school was found to be not operating during a Site visit on October 26, 2005. The blower had shut off because the moisture knockout tank was full, at which point the system automatically shut down. This blower has shutdown due to moisture on a few occasions previously, after unusually heavy precipitation events. This shut down was likely due to the unusually heavy rains we experienced just before the shut down was detected.

The water was drained from the knockout tank on October 27, and the system was restarted around noon time on October 27, 2005.

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on October 28, 2005. All systems were operating upon arrival for the monitoring events.

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 at each location and screened for methane, carbon dioxide, carbon monoxide, hydrogen sulfide, and volatile organic compounds (VOC). Results are provided in Table 1.

Methane, carbon monoxide, and hydrogen sulfide concentrations in the subslab ventilation system samples were all measured as zero during this monitoring event. Carbon dioxide concentrations ranged between 0.2 to 0.4% at the elementary school and 0.0 to 0.2% at the middle school. Four of seven locations had carbon dioxide readings above the Remedial Action Work Plan Action Level of 0.1%. PID readings at the elementary school ranged from 2.5 to 5.0 ppm. PID readings at the middle school ranged from 0.0 to 0.4 ppm. None of the PID readings exceeded the Remedial Action Work Plan Action Level of 5 ppm.

The first two sub-slab system air samples were collected at the rear Middle School shed using Tedlar bags and Masterflex silicone tubing (model # 96410-15). The Masterflex tubing was used to connect the Tedlar bag to the sampling port, the Tedlar bag was filled and emptied three times, and then the sample was collected for screening. The same Masterflex tubing was used to connect the PID to the Tedlar bag. This is the technique that has been used during previous monitoring events.

During PID screening of these samples, we observed slowly rising readings that rose to 28.1 ppm for the sample collected after the second carbon canister, and 30.0 at the inlet. Due to the unusual behavior of the PID, we checked the readings by attaching the Masterflex tubing to the PID without the Tedlar bag. Readings over 30 ppm above ambient were obtained for the Masterflex tubing alone. The two sample locations were then rechecked by inserting the PID directly into the air stream at the two monitored locations. PID readings obtained by this method were 0.4 ppm at both locations.

Based on these findings, we concluded that the Masterflex tubing was causing false PID readings. All other system PID readings were performed by measuring directly with the PID.

We have used this type of Masterflex tubing in the past for collecting air samples without experiencing this problem. The Masterflex tubing used on the 28th was from a new box that was opened on the morning of the sampling event.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on using a Landtec Gem 2000 landfill gas monitor and a Mini Rae photoionization detector. Results of monitoring are provided in the Table 2. No parameters were detected at concentrations above the action levels specified in the Remedial Action Work Plan during the indoor air monitoring.

The methane monitors at the middle school and the elementary schools had stickers that indicated they were last calibrated by Diamond Calibration personnel on October 26, 2005 when the monitoring was being performed. All of the sensors were functioning at the time of our inspection.

GROUNDWATER MONITORING

Five groundwater monitoring wells were sampled by LFR on October 27 and 28, 2005. 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. Temperature, specific conductance, dissolved oxygen, and pH were measured in the field prior to sampling. Depth to groundwater ranged between 11.32 and 17.04 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. Groundwater sampling logs are provided as Attachment A, and the laboratory report is provided as Attachment B. Results of analysis of groundwater samples are summarized in Table 3.

No target analytes were detected in samples from wells ATC-1, ATC-2, ATC-3, ATC-4 or ATC-5.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 29 locations on October 26 and 27, 2005. 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 an SKC Airchek Sampling pump. Soil gas was then screened using a Landtec Gem 2000 Landfill Gas Analyzer and a MiniRae Photoionization Detector.

Air samples were also collected in new laboratory supplied Tedlar bags using the SKC Airchek Pump 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 readings were 0% methane (non-detect) at all locations during the monitoring event.

All PID readings for total VOCs were zero. In addition, carbon monoxide and hydrogen sulfide were not detected at any of the monitoring locations.

Carbon dioxide was detected at 23 locations with detectable concentrations ranging from 0.1% to 14.7% during the October 26 and 27, 2005 monitoring event. 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. Concentrations detected during this round of monitoring appear to be consistent with the patterns of rising carbon dioxide concentrations in the summer and fall, and falling carbon dioxide concentrations in the winter and spring.

Soil Gas Laboratory Results

In accordance with the O&M Plan, two soil gas samples were collected 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 D. Several compounds were detected at low concentrations. The results 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 action levels in any soil gas samples, indoor air or subslab ventilation system samples. Carbon dioxide concentrations in soil gas exceeded the action level at some locations. This condition is typical of what has been detected during previous monitoring events and appears to be a result of seasonal naturally occurring bacterial activity in the subsurface.

Two areas of concern were identified during the inspection of the cap at the Site: holes along the foundation on the west side of the Middle School, and exposed soil around a storm water catch basin in the courtyard at the Middle School. The holes along the west side of the Middle School have already been repaired. An unsuccessful attempt was made to patch asphalt around the catch basin, so this problem will be addressed by a contractor and may involve more extensive repairs. A plan for addressing this area will be submitted no later than November 30, 2005. As noted above, the broken asphalt exposes the clean gravel subbase which was used to construct the cap, and does not represent a hazard to users of the property. Remedial actions are necessary to repair the asphalt to prevent further deterioration that could lead to exposure of the original underlying soil.

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

Sincerely,



Donna Holden Pallister, P.E.
Senior Engineer

Cc: A. Sepe, City of Providence
R. Troiano, PPBA
J. Boffa, Providence School Department
S. Tremblay, Providence School Department

TABLES

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
October 28, 2005

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	0.4	20.6	0	0	0.2
Elementary School inlet 2	0.0	0.2	21.0	0	0	0.4
Elementary School Outlet	0.0	0.3	20.9	0	0	0.0
Middle school front shed inlet	0.0	0.0	21.3	0	0	0.0
Middle school front shed after 2 nd carbon	0.0	0.0	21.1	0	0	0.2
Middle school back shed inlet	0.0	0.1	20.9	0	0	0.4
Middle school back shed after 2 nd carbon	0.0	0.2	20.8	0	0	0.4
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Measurements made with: GEM 2000 Gas Analyzer & Extraction Monitor, MiniRae PID Meter

Sampling date: October 28, 2005

Measured by: D. Pallister

Table 2
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
October 28, 2005

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM*
E.S. Front office	0.0	0.0	21.5	0	0	0.0
E.S. Elevator Room	0.0	0.0	21.5	0	0	0.0
E.S. Electrical closet in Mech. Room	0.0	0.0	21.4	0	0	0.0
E.S. Gym storage closet	0.0	0.0	21.1	0	0	0.0
E.S. Room 214	0.0	0.0	21.5	0	0	0.0
E.S. Library	0.0	0.0	21.1	0	0	0.0
E.S. Room 110	0.0	0.0	21.4	0	0	0.0
E.S. Stairway Stair C	0.0	0.0	21.3	0	0	0.0
E.S. Room 111	0.0	0.0	21.3	0	0	0.0
E.S. Cafeteria	0.0	0.0	21.2	0	0	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
October 28, 2005

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM*
M.S. Front Office	0.0	0.0	21.2	0	0	0.0
M.S. Library	0.0	0.0	21.6	0	0	0.0
M.S. Stairway toward Hartford Ave.	0.0	0.0	21.5	0	0	0.0
M.S. Crack near door to outside near gym	0.0	0.0	21.5	0	0	0.0
M.S. Former Music Room	0.0	0.0	21.5	0	0	0.0
M.S. Room 108	0.0	0.0	21.6	0	0	0.0
M.S. Near Sensor	0.0	0.0	21.5	0	0	0.0
M.S. Room 214	0.0	0.0	21.7	0	0	0.0
M.S. Hall outside cafeteria next to Sensor	0.0	0.0	21.6	0	0	0.0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
October 28, 2005

M.S. Faculty Work Room	0.0	0.0	21.6	0	0	0.0
M.S. Elevator	0.0	0.0	21.5	0	0	0.0
M.S. Elevator Closet	0.0	0.0	21.4	0	0	0.0
M.S. Electric Room	0.0	0.0	21.3	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: GEM 2000 Gas Analyzer & Extraction Monitor, MiniRae PID Meter

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

Well ID	Component	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	10/27/2005	10/28/2005	RIDEM Objective
ATC-1	Benzene	6.1	ND	18.9	0.9	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	NA
	sec-Butylbenzene	1.1	ND	4.1	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	1600
	Isopropylbenzene	ND	ND	1.8	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	NA
	MTBE	12.4	7.0	28.6	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540
	Toluene	2.5	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
	1,2,4-Trimethylbenzene	2.2	ND	8.2	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	NA
Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
ATC-2	Chloroform	0.9	ND	ND	1.0	ND	ND	ND	ND	NS	1.1	1.0	ND	ND	ND	ND	ND	NA	
ATC-3	Toluene	ND	ND	ND	ND	NS	ND	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND	1700	
ATC-4	Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	140	
	Chlorobenzene	2.6	ND	57.3	2.7	5.18	ND	ND	ND	ND	ND	ND	0.60	ND	ND	ND	ND	70	
	1,4-dichlorobenzene	4.2	ND	9.2	3.4	3.36	ND	ND	ND	ND	ND	0.80	1.6	2.1	ND	ND	ND	NA	
	MTBE	ND	ND	ND	ND	ND	ND	ND	1.19	9.55	1.06	2.90	0.6	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	NA	
ATC-5	MTBE	ND	ND	2.2	NS	ND	ND	ND	ND	NS	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	NA	
Sampled By:		ATC	ATC	ATC	ATC	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 exists
 MTBE is Methyl tert-Butyl Ether
 µg/L = micrograms per liter

Table 4
Soil Gas Survey Results
Springfield Street School Complex
Providence, Rhode Island
October 27 & 28, 2005

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	3.1	17.0	0.0	0.0	0.0
WB-2	0.0	0.2	21.5	0.0	0.0	0.0
WB-3	0.0	0.0	21.6	0.0	0.0	0.0
WB-4	0.0	0.0	21.2	0.0	0.0	0.0
WB-5	0.0	0.0	21.3	0.0	0.0	0.0
WB-6	0.0	0.0	21.4	0.0	0.0	0.0
WB-7	0.0	0.0	21.4	0.0	0.0	0.0
WB-8	0.0	0.0	21.6	0.0	0.0	0.0
WB-12	0.0	1.6	19.3	0.0	0.0	0.0
WB-13	0.0	0.7	20.1	0.0	0.0	0.0
WB-14	0.0	0.8	20.7	0.0	0.0	0.0
WB-15	0.0	2.9	18.9	0.0	0.0	0.0
EPL-1	0.0	0.3	20.6	0.0	0.0	0.0
EPL-2	0.0	1.8	18.7	0.0	0.0	0.0
EPL-3	0.0	0.1	21.5	0.0	0.0	0.0
EPL-4	0.0	4.8	13.2	0.0	0.0	0.0
EPL-5	0.0	3.3	16.2	0.0	0.0	0.0
ENE-1	0.0	0.4	20.7	0.0	0.0	0.0
MG1	0.0	8.0	9.2	0.0	0.0	0.0
MG2	0.0	4.6	13.2	0.0	0.0	0.0
MG3	0.0	4.4	17.3	0.0	0.0	0.0
MG4	0.0	2.4	18.7	0.0	0.0	0.0
MG5	0.0	6.2	14.0	0.0	0.0	0.0
MPL2	0.0	0.8	20.0	0.0	0.0	0.0
MPL3	0.0	12.4	5.1	0.0	0.0	0.0

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MPL5	0.0	14.7	5.2	0.0	0.0	0.0
MPL6	0.0	11.4	6.6	0.0	0.0	0.0
MPL7	0.0	6.2	12.7	0.0	0.0	0.0
MPL8	0.0	6.6	13.4	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

Notes:

Sampled by: A. Cote

Weather Conditions: sunny, windy, ~50°F

Sampling Equipment: GEM 2000 Gas Analyzer & Extraction Monitor, MiniRae PID Meter

PPM = parts per million

Table 5
Soil Gas Laboratory Analysis Results
Springfield Street School Complex
October 27, 2005

Parameter	OSHA PELs (PPBv)	Results of Analysis in parts per billion by volume (PPBv)	
		MPL-6	WB-2
1,1,2-Trichloro-1,2,2-Trifluoroethane	1,000,000	<0.5	1.6
Chloromethane	100,000	<0.5	0.6
Dichlorodifluoromethane	1,000,000	<0.5	0.6
Ethylbenzene	100,000	0.6	<0.5
Methylene Chloride	100,000	<0.5	12
Styrene	100,000	0.6	<0.5
Toluene	200,000	3.6	2.2
M/p-Xylene	100,000	1.5	<1.0

Table lists only detected compounds. See laboratory report for full list of analytes.

Occupational Safety and Health Administration (OSHA) PELs = Permissible Exposure Limits
from NIOSH Pocket Guide to Chemical Hazards

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'.

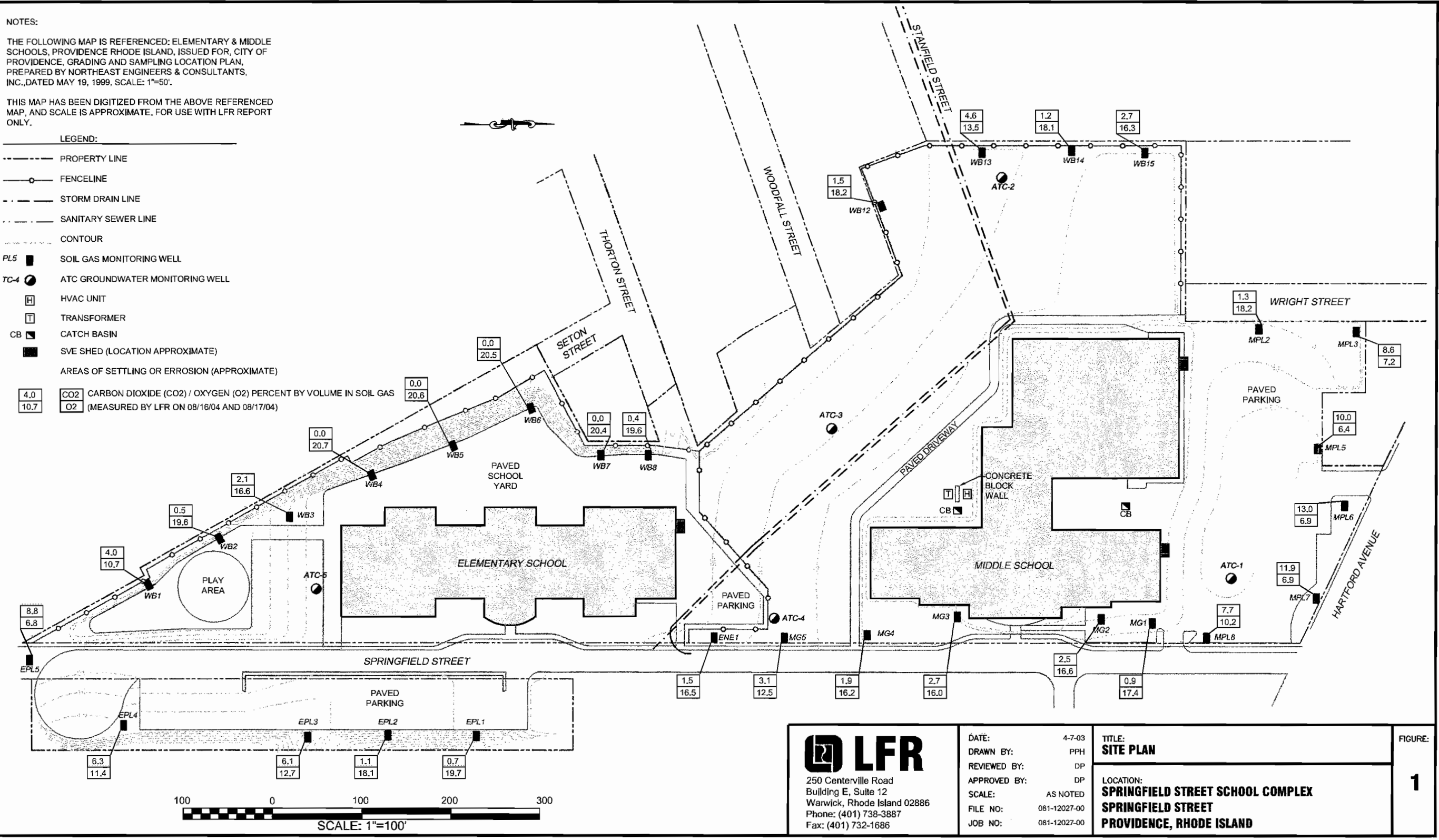
THIS MAP HAS BEEN DIGITIZED FROM THE ABOVE REFERENCED MAP, AND SCALE IS APPROXIMATE. FOR USE WITH LFR REPORT ONLY.

LEGEND:

- PROPERTY LINE
- o- FENCELINE
- - - STORM DRAIN LINE
- - - SANITARY SEWER LINE
- - - CONTOUR
- PL5 ■ SOIL GAS MONITORING WELL
- TC-4 ● ATC GROUNDWATER MONITORING WELL
- H HVAC UNIT
- T TRANSFORMER
- CB ■ CATCH BASIN
- SVE SHED (LOCATION APPROXIMATE)

AREAS OF SETTLING OR EROSION (APPROXIMATE)

- 4.0 CO2 CARBON DIOXIDE (CO2) / OXYGEN (O2) PERCENT BY VOLUME IN SOIL GAS
- 10.7 O2 (MEASURED BY LFR ON 08/16/04 AND 08/17/04)



<p>LFR 250 Centerville Road Building E, Suite 12 Warwick, Rhode Island 02886 Phone: (401) 738-3887 Fax: (401) 732-1686</p>	<p>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</p>	<p>TITLE: SITE PLAN</p> <p>LOCATION: SPRINGFIELD STREET SCHOOL COMPLEX SPRINGFIELD STREET PROVIDENCE, RHODE ISLAND</p>	<p>FIGURE: 1</p>
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Attachment A

Groundwater Monitoring Logs



Well Number: ATC-1

Site Name: Springfield Street

Project Number: 081-12152-02

Site Address: Springfield St., Providence

GROUNDWATER SAMPLING LOG

Sampled By: Anna Cote	Date: 10/28/05
Weather: cloudy, ~45°F	Purging Equipment: dedicated poly bailer
Sampling Equipment: dedicated poly bailer	Decontamination method: Alconox & DI
Measuring Point (top of PVC/ top of casing): Top of PVC	Depth to water: 12.10 (feet)
Casing diameter: 2 (inches)	Flush mount or riser: Flush mount
Depth to Product: NM (feet)	Product thickness: NM (feet)
Depth to bottom: 20.76 (feet)	Length of Water Column (depth to bottom - depth to water): 8.66 (feet)
Well measuring point elevation: -- (feet)	Water table elevation: -- (feet)
Well volume: 5.3 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 16.0 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (µS)	pH (standard units)	DO (mg/L)
14	16.2	330.3	6.87	0.96
15	17.2	718	6.52	1.21
16	17.0	580	6.41	1.28

Total volume Removed: 16

OBSERVATIONS:

Color of groundwater: yellow, turbid Odors: no Did well go dry: no

Notes: Collected sample at 10:30.



Well Number: ATC-2

Site Name: Springfield Street

Project Number: 081-12152-02

Site Address: Springfield St., Providence

GROUNDWATER SAMPLING LOG

Sampled By: Anna Cote	Date: 10/28/05
Weather: cloudy, ~45°F	Purging Equipment: dedicated poly bailer
Sampling Equipment: dedicated poly bailer	Decontamination method: Alconox & DI
Measuring Point (top of PVC/ top of casing): Top of PVC	Depth to water: 11.32 (feet)
Casing diameter: 2 (inches)	Flush mount or riser: Flush mount
Depth to Product: NM (feet)	Product thickness: NM (feet)
Depth to bottom: 18.64 (feet)	Length of Water Column (depth to bottom - depth to water): 7.32 (feet)
Well measuring point elevation: -- (feet)	Water table elevation: -- (feet)
Well volume: 4.5 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 13.5 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (µS)	pH (standard units)	DO (mg/L)
12	14.0	628	6.4	5.51
13	14.5	634	6.4	4.71
14	14.7	638	6.4	5.15

Total volume Removed: 14

OBSERVATIONS:

Color of groundwater: turbid Odors: no Did well go dry: no

Notes: Collected sample at 11:30.



Well Number: ATC-3

Site Name: Springfield Street

Project Number: 081-12152-02

Site Address: Springfield St., Providence

GROUNDWATER SAMPLING LOG

Sampled By: Anna Cote	Date: 10/27/05
Weather: cloudy, ~50°F	Purging Equipment: dedicated poly bailer
Sampling Equipment: dedicated poly bailer	Decontamination method: Alconox & DI
Measuring Point (top of PVC/ top of casing): Top of PVC	Depth to water: 11.55 (feet)
Casing diameter: 2 (inches)	Flush mount or riser: Flush mount
Depth to Product: NM (feet)	Product thickness: NM (feet)
Depth to bottom: 16.00 (feet)	Length of Water Column (depth to bottom - depth to water): 4.45 (feet)
Well measuring point elevation: -- (feet)	Water table elevation: -- (feet)
Well volume: 2.74 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 8.23 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (µS)	pH (standard units)	DO (mg/L)
7	11.7	221.5	6.4	6.04
8	12.2	220.3	6.4	6.05
9	11.7	220.1	6.4	6.06

Total volume Removed: 9

OBSERVATIONS:

Color of groundwater: turbid, clear Odors: no Did well go dry: no

Notes: Collected sample at 16:00.



Well Number: ATC-4

Site Name: Springfield Street

Project Number: 081-12152-02

Site Address: Springfield St., Providence

GROUNDWATER SAMPLING LOG

Sampled By: Anna Cote	Date: 10/27/05
Weather: cloudy, ~50°F	Purging Equipment: dedicated poly bailer
Sampling Equipment: dedicated poly bailer	Decontamination method: Alconox & DI
Measuring Point (top of PVC/ top of casing): Top of PVC	Depth to water: 12.61 (feet)
Casing diameter: 2 (inches)	Flush mount or riser: Flush mount
Depth to Product: NM (feet)	Product thickness: NM (feet)
Depth to bottom: 23.80 (feet)	Length of Water Column (depth to bottom - depth to water): 11.19 (feet)
Well measuring point elevation: -- (feet)	Water table elevation: -- (feet)
Well volume: 6.90 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 20.7 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (µS)	pH (standard units)	DO (mg/L)
19	13.3	683	6.4	4.34
20	13.7	689	6.4	2.14
21	13.9	694	6.4	2.53

Total volume Removed: 21

OBSERVATIONS:

Color of groundwater: turbid, clear Odors: no Did well go dry: no

Notes: Collected sample at 14:25.



Well Number: ATC-5

Site Name: Springfield Street

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-02

Site Address: Springfield St., Providence

Sampled By: Anna Cote	Date: 10/27/05
Weather: cloudy, ~50°F	Purging Equipment: dedicated poly bailer
Sampling Equipment: dedicated poly bailer	Decontamination method: Alconox & DI
Measuring Point (top of PVC/ top of casing): Top of PVC	Depth to water: 17.04 (feet)
Casing diameter: 2 (inches)	Flush mount or riser: Flush mount
Depth to Product: NM (feet)	Product thickness: NM (feet)
Depth to bottom: 21.60 (feet)	Length of Water Column (depth to bottom – depth to water): 4.56 (feet)
Well measuring point elevation: -- (feet)	Water table elevation: -- (feet)
Well volume: 2.81 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 8.44 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (µS)	pH (standard units)	DO (mg/L)
5.5	16.2	206.8	6.4	4.04

Total volume Removed: 5.5

OBSERVATIONS:

Color of groundwater: turbid, clear Odors: no Did well go dry: yes

Notes: Well dry at 5.5 L, let recharge. Collected sample at 13:50.

Attachment B

Laboratory Report for Groundwater



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

REPORT DATE 11/8/2005

LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-92921
JOB NUMBER: 081-12152-02

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

PROJECT LOCATION: SPRINGFIELD ST.,SCHOOL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
ATC-1	05B43054	GRND WATER	NOT SPECIFIED	8260 water
ATC-2	05B43055	GRND WATER	NOT SPECIFIED	8260 water
ATC-3	05B43056	GRND WATER	NOT SPECIFIED	8260 water
ATC-4	05B43057	GRND WATER	NOT SPECIFIED	8260 water
ATC-5	05B43058	GRND WATER	NOT SPECIFIED	8260 water

Comments :

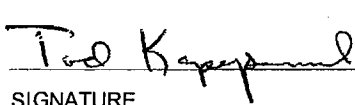
LIMS BATCH NO. : LIMS-92921

IN METHOD 8260 WATER, EITHER INITIAL OR CONTINUING CALIBRATION FOR 2,2-DICHLOROPROPANE AND TERT-BUTYLETHYLETHER DID NOT MEET METHOD CRITERIA. ANY REPORTED RESULTS FOR THESE COMPOUNDS ARE ESTIMATED.

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

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

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.

 11/8/05
 SIGNATURE DATE

Tod Kopycinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

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



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DONNA PALLISTER
LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
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11/8/2005
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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST.,SCHOOL

LIMS-BAT #: LIMS-92921

Date Received: 10/31/2005

Job Number: 081-12152-02

Field Sample #: ATC-1

Sample ID: 05B43054

Sampled: 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/03/05	LBD
Acrylonitrile	ug/l	ND	10.0		11/03/05	LBD
tert-Amylmethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Benzene	ug/l	ND	1.0		11/03/05	LBD
Bromobenzene	ug/l	ND	1.0		11/03/05	LBD
Bromochloromethane	ug/l	ND	2.0		11/03/05	LBD
Bromodichloromethane	ug/l	ND	1.0		11/03/05	LBD
Bromoform	ug/l	ND	3.0		11/03/05	LBD
Bromomethane	ug/l	ND	2.0		11/03/05	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/03/05	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/03/05	LBD
n-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/03/05	LBD
tert-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
tert-Butylethyl Ether	ug/l	ND	1.0		11/03/05	LBD
Carbon Disulfide	ug/l	ND	3.0		11/03/05	LBD
Carbon Tetrachloride	ug/l	ND	2.0		11/03/05	LBD
Chlorobenzene	ug/l	ND	1.0		11/03/05	LBD
Chlorodibromomethane	ug/l	ND	2.0		11/03/05	LBD
Chloroethane	ug/l	ND	2.0		11/03/05	LBD
Chloroform	ug/l	ND	2.0		11/03/05	LBD
Chloromethane	ug/l	ND	2.0		11/03/05	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/03/05	LBD
1,2-Dibromoethane	ug/l	ND	2.00		11/03/05	LBD
Dibromomethane	ug/l	ND	2.0		11/03/05	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/03/05	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	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



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DONNA PALLISTER
LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

11/8/2005
Page 2 of 16

Project Location: SPRINGFIELD ST., SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-1

Sample ID : 05B43054 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/03/05	LBD
2,2-Dichloropropane	ug/l	ND	5.0		11/03/05	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
cis-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
trans-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
Diethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/03/05	LBD
1,4-Dioxane	ug/l	ND	50.0		11/03/05	LBD
Ethyl Benzene	ug/l	ND	1.0		11/03/05	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/03/05	LBD
2-Hexanone	ug/l	ND	20.0		11/03/05	LBD
Isopropylbenzene	ug/l	ND	2.0		11/03/05	LBD
p-Isopropyltoluene	ug/l	ND	2.0		11/03/05	LBD
MTBE	ug/l	ND	2.5		11/03/05	LBD
Methylene Chloride	ug/l	ND	5.0		11/03/05	LBD
MIBK	ug/l	ND	10.0		11/03/05	LBD
Naphthalene	ug/l	ND	2.0		11/03/05	LBD
n-Propylbenzene	ug/l	ND	2.0		11/03/05	LBD
Styrene	ug/l	ND	2.0		11/03/05	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	2.0		11/03/05	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/03/05	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/03/05	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/03/05	LBD
Toluene	ug/l	ND	1.0		11/03/05	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/03/05	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/03/05	LBD
1,1,1-Trichloroethane	ug/l	ND	1.5		11/03/05	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/03/05	LBD
Trichloroethylene	ug/l	ND	1.0		11/03/05	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/03/05	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/03/05	LBD
1,3,5-Trimethylbenzene	ug/l	ND	2.0		11/03/05	LBD
Vinyl Chloride	ug/l	ND	2.0		11/03/05	LBD

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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST.,SCHOOL

LIMS-BAT #: LIMS-92921

Date Received: 10/31/2005

Job Number: 081-12152-02

Field Sample #: ATC-1

Sample ID : 05B43054 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
m + p Xylene	ug/l	ND	2.0		11/03/05	LBD
o-Xylene	ug/l	ND	1.0		11/03/05	LBD

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NM = Not Measured

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



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Purchase Order No.: 5131

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Project Location: SPRINGFIELD ST., SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-2

Sample ID : 05B43055 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/03/05	LBD
Acrylonitrile	ug/l	ND	10.0		11/03/05	LBD
tert-Amylmethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Benzene	ug/l	ND	1.0		11/03/05	LBD
Bromobenzene	ug/l	ND	1.0		11/03/05	LBD
Bromochloromethane	ug/l	ND	2.0		11/03/05	LBD
Bromodichloromethane	ug/l	ND	1.0		11/03/05	LBD
Bromoform	ug/l	ND	3.0		11/03/05	LBD
Bromomethane	ug/l	ND	2.0		11/03/05	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/03/05	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/03/05	LBD
n-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/03/05	LBD
tert-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
tert-Butylethyl Ether	ug/l	ND	1.0		11/03/05	LBD
Carbon Disulfide	ug/l	ND	3.0		11/03/05	LBD
Carbon Tetrachloride	ug/l	ND	2.0		11/03/05	LBD
Chlorobenzene	ug/l	ND	1.0		11/03/05	LBD
Chlorodibromomethane	ug/l	ND	2.0		11/03/05	LBD
Chloroethane	ug/l	ND	2.0		11/03/05	LBD
Chloroform	ug/l	ND	2.0		11/03/05	LBD
Chloromethane	ug/l	ND	2.0		11/03/05	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/03/05	LBD
1,2-Dibromoethane	ug/l	ND	2.00		11/03/05	LBD
Dibromomethane	ug/l	ND	2.0		11/03/05	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/03/05	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD

RL = Reporting Limit

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Purchase Order No.: 5131

11/8/2005
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Project Location: SPRINGFIELD ST.,SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-2

Sample ID : 05B43055 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/03/05	LBD
2,2-Dichloropropane	ug/l	ND	5.0		11/03/05	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
cis-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
trans-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
Diethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/03/05	LBD
1,4-Dioxane	ug/l	ND	50.0		11/03/05	LBD
Ethyl Benzene	ug/l	ND	1.0		11/03/05	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/03/05	LBD
2-Hexanone	ug/l	ND	20.0		11/03/05	LBD
Isopropylbenzene	ug/l	ND	2.0		11/03/05	LBD
p-Isopropyltoluene	ug/l	ND	2.0		11/03/05	LBD
MTBE	ug/l	ND	2.5		11/03/05	LBD
Methylene Chloride	ug/l	ND	5.0		11/03/05	LBD
MIBK	ug/l	ND	10.0		11/03/05	LBD
Naphthalene	ug/l	ND	2.0		11/03/05	LBD
n-Propylbenzene	ug/l	ND	2.0		11/03/05	LBD
Styrene	ug/l	ND	2.0		11/03/05	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	2.0		11/03/05	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/03/05	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/03/05	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/03/05	LBD
Toluene	ug/l	ND	1.0		11/03/05	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/03/05	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/03/05	LBD
1,1,1-Trichloroethane	ug/l	ND	1.5		11/03/05	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/03/05	LBD
Trichloroethylene	ug/l	ND	1.0		11/03/05	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/03/05	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/03/05	LBD
1,3,5-Trimethylbenzene	ug/l	ND	2.0		11/03/05	LBD
Vinyl Chloride	ug/l	ND	2.0		11/03/05	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



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350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/8/2005
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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST.,SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-2

Sample ID : 05B43055 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
m + p Xylene	ug/l	ND	2.0		11/03/05	LBD
o-Xylene	ug/l	ND	1.0		11/03/05	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



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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST., SCHOOL
 Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
 Job Number: 081-12152-02

Field Sample #: ATC-3

Sample ID : 05B43056 Sampled : 10/28/2005
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/03/05	LBD
Acrylonitrile	ug/l	ND	10.0		11/03/05	LBD
tert-Amylmethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Benzene	ug/l	ND	1.0		11/03/05	LBD
Bromobenzene	ug/l	ND	1.0		11/03/05	LBD
Bromochloromethane	ug/l	ND	2.0		11/03/05	LBD
Bromodichloromethane	ug/l	ND	1.0		11/03/05	LBD
Bromoform	ug/l	ND	3.0		11/03/05	LBD
Bromomethane	ug/l	ND	2.0		11/03/05	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/03/05	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/03/05	LBD
n-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/03/05	LBD
tert-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
tert-Butylethyl Ether	ug/l	ND	1.0		11/03/05	LBD
Carbon Disulfide	ug/l	ND	3.0		11/03/05	LBD
Carbon Tetrachloride	ug/l	ND	2.0		11/03/05	LBD
Chlorobenzene	ug/l	ND	1.0		11/03/05	LBD
Chlorodibromomethane	ug/l	ND	2.0		11/03/05	LBD
Chloroethane	ug/l	ND	2.0		11/03/05	LBD
Chloroform	ug/l	ND	2.0		11/03/05	LBD
Chloromethane	ug/l	ND	2.0		11/03/05	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/03/05	LBD
1,2-Dibromoethane	ug/l	ND	2.00		11/03/05	LBD
Dibromomethane	ug/l	ND	2.0		11/03/05	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/03/05	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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DONNA PALLISTER
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 350 METRO CENTER BLVD., SUITE 250
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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST., SCHOOL
 Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
 Job Number: 081-12152-02

Field Sample #: ATC-3

Sample ID : 05B43056 Sampled : 10/28/2005
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/03/05	LBD
2,2-Dichloropropane	ug/l	ND	5.0		11/03/05	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
cis-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
trans-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
Diethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/03/05	LBD
1,4-Dioxane	ug/l	ND	50.0		11/03/05	LBD
Ethyl Benzene	ug/l	ND	1.0		11/03/05	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/03/05	LBD
2-Hexanone	ug/l	ND	20.0		11/03/05	LBD
Isopropylbenzene	ug/l	ND	2.0		11/03/05	LBD
p-Isopropyltoluene	ug/l	ND	2.0		11/03/05	LBD
MTBE	ug/l	ND	2.5		11/03/05	LBD
Methylene Chloride	ug/l	ND	5.0		11/03/05	LBD
MIBK	ug/l	ND	10.0		11/03/05	LBD
Naphthalene	ug/l	ND	2.0		11/03/05	LBD
n-Propylbenzene	ug/l	ND	2.0		11/03/05	LBD
Styrene	ug/l	ND	2.0		11/03/05	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	2.0		11/03/05	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/03/05	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/03/05	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/03/05	LBD
Toluene	ug/l	ND	1.0		11/03/05	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/03/05	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/03/05	LBD
1,1,1-Trichloroethane	ug/l	ND	1.5		11/03/05	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/03/05	LBD
Trichloroethylene	ug/l	ND	1.0		11/03/05	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/03/05	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/03/05	LBD
1,3,5-Trimethylbenzene	ug/l	ND	2.0		11/03/05	LBD
Vinyl Chloride	ug/l	ND	2.0		11/03/05	LBD

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD ST., SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-3

Sample ID: 05B43056
Sampled: 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
m + p Xylene	ug/l	ND	2.0		11/03/05	LBD
o-Xylene	ug/l	ND	1.0		11/03/05	LBD

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Project Location: SPRINGFIELD ST., SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-4

Sample ID : 05B43057 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/03/05	LBD
Acrylonitrile	ug/l	ND	10.0		11/03/05	LBD
tert-Amylmethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Benzene	ug/l	ND	1.0		11/03/05	LBD
Bromobenzene	ug/l	ND	1.0		11/03/05	LBD
Bromochloromethane	ug/l	ND	2.0		11/03/05	LBD
Bromodichloromethane	ug/l	ND	1.0		11/03/05	LBD
Bromoform	ug/l	ND	3.0		11/03/05	LBD
Bromomethane	ug/l	ND	2.0		11/03/05	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/03/05	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/03/05	LBD
n-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/03/05	LBD
tert-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
tert-Butylethyl Ether	ug/l	ND	1.0		11/03/05	LBD
Carbon Disulfide	ug/l	ND	3.0		11/03/05	LBD
Carbon Tetrachloride	ug/l	ND	2.0		11/03/05	LBD
Chlorobenzene	ug/l	ND	1.0		11/03/05	LBD
Chlorodibromomethane	ug/l	ND	2.0		11/03/05	LBD
Chloroethane	ug/l	ND	2.0		11/03/05	LBD
Chloroform	ug/l	ND	2.0		11/03/05	LBD
Chloromethane	ug/l	ND	2.0		11/03/05	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/03/05	LBD
1,2-Dibromoethane	ug/l	ND	2.00		11/03/05	LBD
Dibromomethane	ug/l	ND	2.0		11/03/05	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/03/05	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD ST.,SCHOOL
 Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
 Job Number: 081-12152-02

Field Sample #: ATC-4

Sample ID : 05B43057 Sampled : 10/28/2005
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/03/05	LBD
2,2-Dichloropropane	ug/l	ND	5.0		11/03/05	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
cis-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
trans-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
Diethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/03/05	LBD
1,4-Dioxane	ug/l	ND	50.0		11/03/05	LBD
Ethyl Benzene	ug/l	ND	1.0		11/03/05	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/03/05	LBD
2-Hexanone	ug/l	ND	20.0		11/03/05	LBD
Isopropylbenzene	ug/l	ND	2.0		11/03/05	LBD
p-Isopropyltoluene	ug/l	ND	2.0		11/03/05	LBD
MTBE	ug/l	ND	2.5		11/03/05	LBD
Methylene Chloride	ug/l	ND	5.0		11/03/05	LBD
MIBK	ug/l	ND	10.0		11/03/05	LBD
Naphthalene	ug/l	ND	2.0		11/03/05	LBD
n-Propylbenzene	ug/l	ND	2.0		11/03/05	LBD
Styrene	ug/l	ND	2.0		11/03/05	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	2.0		11/03/05	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/03/05	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/03/05	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/03/05	LBD
Toluene	ug/l	ND	1.0		11/03/05	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/03/05	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/03/05	LBD
1,1,1-Trichloroethane	ug/l	ND	1.5		11/03/05	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/03/05	LBD
Trichloroethylene	ug/l	ND	1.0		11/03/05	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/03/05	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/03/05	LBD
1,3,5-Trimethylbenzene	ug/l	ND	2.0		11/03/05	LBD
Vinyl Chloride	ug/l	ND	2.0		11/03/05	LBD

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD ST.,SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-4

Sample ID : 05B43057 Sampled : 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
m + p Xylene	ug/l	ND	2.0		11/03/05	LBD
o-Xylene	ug/l	ND	1.0		11/03/05	LBD

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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST., SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-5

Sample ID: 05B43058 Sampled: 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		11/03/05	LBD
Acrylonitrile	ug/l	ND	10.0		11/03/05	LBD
tert-Amylmethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Benzene	ug/l	ND	1.0		11/03/05	LBD
Bromobenzene	ug/l	ND	1.0		11/03/05	LBD
Bromochloromethane	ug/l	ND	2.0		11/03/05	LBD
Bromodichloromethane	ug/l	ND	1.0		11/03/05	LBD
Bromoform	ug/l	ND	3.0		11/03/05	LBD
Bromomethane	ug/l	ND	2.0		11/03/05	LBD
2-Butanone (MEK)	ug/l	ND	20.0		11/03/05	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		11/03/05	LBD
n-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
sec-Butylbenzene	ug/l	ND	1.0		11/03/05	LBD
tert-Butylbenzene	ug/l	ND	2.0		11/03/05	LBD
tert-Butylethyl Ether	ug/l	ND	1.0		11/03/05	LBD
Carbon Disulfide	ug/l	ND	3.0		11/03/05	LBD
Carbon Tetrachloride	ug/l	ND	2.0		11/03/05	LBD
Chlorobenzene	ug/l	ND	1.0		11/03/05	LBD
Chlorodibromomethane	ug/l	ND	2.0		11/03/05	LBD
Chloroethane	ug/l	ND	2.0		11/03/05	LBD
Chloroform	ug/l	ND	2.0		11/03/05	LBD
Chloromethane	ug/l	ND	2.0		11/03/05	LBD
2-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
4-Chlorotoluene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		11/03/05	LBD
1,2-Dibromoethane	ug/l	ND	2.00		11/03/05	LBD
Dibromomethane	ug/l	ND	2.0		11/03/05	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		11/03/05	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		11/03/05	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,1-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloroethane	ug/l	ND	1.0		11/03/05	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD

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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST.,SCHOOL
 Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
 Job Number: 081-12152-02

Field Sample #: ATC-5

Sample ID : 05B43058 Sampled : 10/28/2005
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		11/03/05	LBD
1,2-Dichloropropane	ug/l	ND	1.0		11/03/05	LBD
1,3-Dichloropropane	ug/l	ND	0.5		11/03/05	LBD
2,2-Dichloropropane	ug/l	ND	5.0		11/03/05	LBD
1,1-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
cis-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
trans-1,3-Dichloropropene	ug/l	ND	2.0		11/03/05	LBD
Diethyl Ether	ug/l	ND	2.0		11/03/05	LBD
Diisopropyl Ether	ug/l	ND	0.5		11/03/05	LBD
1,4-Dioxane	ug/l	ND	50.0		11/03/05	LBD
Ethyl Benzene	ug/l	ND	1.0		11/03/05	LBD
Hexachlorobutadiene	ug/l	ND	1.0		11/03/05	LBD
2-Hexanone	ug/l	ND	20.0		11/03/05	LBD
Isopropylbenzene	ug/l	ND	2.0		11/03/05	LBD
p-Isopropyltoluene	ug/l	ND	2.0		11/03/05	LBD
MTBE	ug/l	ND	2.5		11/03/05	LBD
Methylene Chloride	ug/l	ND	5.0		11/03/05	LBD
MIBK	ug/l	ND	10.0		11/03/05	LBD
Naphthalene	ug/l	ND	2.0		11/03/05	LBD
n-Propylbenzene	ug/l	ND	2.0		11/03/05	LBD
Styrene	ug/l	ND	2.0		11/03/05	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	2.0		11/03/05	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		11/03/05	LBD
Tetrachloroethylene	ug/l	ND	1.0		11/03/05	LBD
Tetrahydrofuran	ug/l	ND	10.0		11/03/05	LBD
Toluene	ug/l	ND	1.0		11/03/05	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		11/03/05	LBD
1,2,4-Trichlorobenzene	ug/l	ND	2.0		11/03/05	LBD
1,1,1-Trichloroethane	ug/l	ND	1.5		11/03/05	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		11/03/05	LBD
Trichloroethylene	ug/l	ND	1.0		11/03/05	LBD
Trichlorofluoromethane	ug/l	ND	2.0		11/03/05	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		11/03/05	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		11/03/05	LBD
1,3,5-Trimethylbenzene	ug/l	ND	2.0		11/03/05	LBD
Vinyl Chloride	ug/l	ND	2.0		11/03/05	LBD

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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST.,SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

Field Sample #: ATC-5

Sample ID: 05B43058 Sampled: 10/28/2005
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
m + p Xylene	ug/l	ND	2.0		11/03/05	LBD
o-Xylene	ug/l	ND	1.0		11/03/05	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



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

DONNA PALLISTER
LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

Purchase Order No.: 5131

11/8/2005
Page 16 of 16

Project Location: SPRINGFIELD ST.,SCHOOL
Date Received: 10/31/2005

LIMS-BAT #: LIMS-92921
Job Number: 081-12152-02

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 11/8/2005

Lims Bat #: LIMS-92921

Page 1 of 4

QC Batch Number: GCMS/VOL-13379

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B43054	1,2-Dichloroethane-d4	Surrogate Recovery	111.1	%	70-130
	Toluene-d8	Surrogate Recovery	103.4	%	70-130
	Bromofluorobenzene	Surrogate Recovery	104.9	%	70-130
05B43055	1,2-Dichloroethane-d4	Surrogate Recovery	113.3	%	70-130
	Toluene-d8	Surrogate Recovery	102.6	%	70-130
	Bromofluorobenzene	Surrogate Recovery	102.1	%	70-130
05B43056	1,2-Dichloroethane-d4	Surrogate Recovery	113.7	%	70-130
	Toluene-d8	Surrogate Recovery	103.6	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.2	%	70-130
05B43057	1,2-Dichloroethane-d4	Surrogate Recovery	114.0	%	70-130
	Toluene-d8	Surrogate Recovery	104.2	%	70-130
	Bromofluorobenzene	Surrogate Recovery	104.1	%	70-130
05B43058	1,2-Dichloroethane-d4	Surrogate Recovery	111.7	%	70-130
	Toluene-d8	Surrogate Recovery	104.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	102.0	%	70-130
BLANK-80730	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<1.0	ug/l	
	Carbon Tetrachloride	Blank	<2.0	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	<2.0	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	
	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		



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 11/8/2005

Lims Bat #: LIMS-92921

Page 2 of 4

QC Batch Number: GCMS/VOL-13379

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-80730	MTBE	Blank	<2.5	ug/l	
	trans-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	Vinyl Chloride	Blank	<2.0	ug/l	
	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	<2.0	ug/l	
	trans-1,3-Dichloropropene	Blank	<2.0	ug/l	
	Chlorodibromomethane	Blank	<2.0	ug/l	
	1,1,2-Trichloroethane	Blank	<1.0	ug/l	
	Bromofom	Blank	<3.0	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	<2.0	ug/l	
	p-Isopropyltoluene	Blank	<2.0	ug/l	
	n-Propylbenzene	Blank	<2.0	ug/l	
	sec-Butylbenzene	Blank	<1.0	ug/l	
	tert-Butylbenzene	Blank	<2.0	ug/l	
	1,2,3-Trichlorobenzene	Blank	<5.0	ug/l	
	1,2,4-Trichlorobenzene	Blank	<2.0	ug/l	
	1,2,4-Trimethylbenzene	Blank	<1.0	ug/l	
	1,3,5-Trimethylbenzene	Blank	<2.0	ug/l	
	Dibromomethane	Blank	<2.0	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	<5.0	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<2.0	ug/l	
	1,2,3-Trichloropropane	Blank	<2.0	ug/l	
	n-Butylbenzene	Blank	<2.0	ug/l	
	Dichlorodifluoromethane	Blank	<2.0	ug/l	
	Bromochloromethane	Blank	<2.0	ug/l	
	Bromobenzene	Blank	<1.0	ug/l	
	Acrylonitrile	Blank	<10.0	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	2-Hexanone	Blank	<20.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.0	ug/l	
	Diethyl Ether	Blank	<2.0	ug/l	



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QC SUMMARY REPORT

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

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

Report Date: 11/8/2005

Lims Bat # : LIMS-92921

Page 3 of 4

QC Batch Number: GCMS/VOL-13379

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-80730	Bromodichloromethane	Blank	<1.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<2.00	ug/l	
	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	<1.0	ug/l	
	tert-Amylmethyl Ether	Blank	<2.0	ug/l	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 11/8/2005

Lims Bat #: LIMS-92921

Page 4 of 4

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 through 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



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

CHAIN OF CUSTODY RECORD
 LIMS-92921

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: LEP

Address: 302 Metro Center Boulevard, Suite 250
Warwick, RI 02886

Attention: Danna Ballista

Project Location: Springfield St School

Sampled By: A. Gote

Proposal Provided? (For Billing purposes)
 yes no

State Form Required?
 yes no

Telephone: (401) 738-3887
 Project # 081-12152-02
 Client PO # _____

DATA DELIVERY (check one):

FAX EMAIL WEBSITE CLIENT

Fax #: _____

Email: _____

Format: EXCEL PDF GIS KEY

OTHER

Date Sampled

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	ANALYSIS REQUESTED									
	ATC-1	05B	10/28/05	1030	X		GW	VOCs (8260)									
	ATC-2		10/28/05	1130	X		GW										
	ATC-3		10/28/05	1600	X		GW										
	ATC-4		10/28/05	1425	X		GW										
	ATC-5		10/27/05	1350	X		GW										

Laboratory Comments:

Relinquished by: (signature)
[Signature]

Received by: (signature)
[Signature]

Relinquished by: (signature)
[Signature]

Received by: (signature)
[Signature]

Received by: (signature)
[Signature]

Date/Time: 10/29/05 1515

Date/Time: 10/31/05 1410

Date/Time: 10/31/05 1635

Date/Time: 10/31/05 1633

Turnaround **

7-Day

10-Day

Other

RUSH *

*24-Hr *48-Hr

*72-Hr *4-Day

Require lab approval

Detection Limit Requirements

Regulations? RI

Data Enhancement Project/RCP? Y N

Special Requirements or DL's: _____

***Matrix Code:**

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

****Preservation Codes:**

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

of containers
 **Preservation
 ~Cont Code

Cont. Codes:
 A = amber glass
 G = glass
 P = plastic
 ST = stems
 V = vial
 S = surtina can
 T = redial bag
 O = Other

Client
 Comments:

Cor-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious ALPHA and NELAP Certifications and WBE/DBE Certified!

SAMPLE RECEIPT CHECKLIST

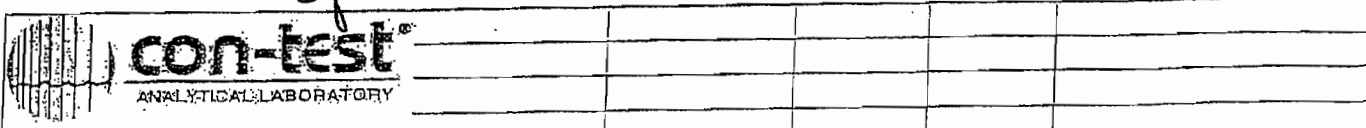
CLIENT NAME

LF R

RECEIVED BY: (Signature)

DATE 10/31/05

Sprfld. St. School



Was chain of custody relinquished and signed?		<input checked="" type="radio"/> yes	<input type="radio"/> no	
Does Chain agree with samples?		<input checked="" type="radio"/> yes	<input type="radio"/> no	Explain:
All samples in good condition?		<input checked="" type="radio"/> yes	<input type="radio"/> no	Explain:
Were samples received in compliance with tempaure 0-6 degrees C?		<input checked="" type="radio"/> yes	<input type="radio"/> no	<u>5.0</u> degrees C
Are there any on-hold samples?		<input type="radio"/> yes	<input checked="" type="radio"/> no	
Laboratory analysts notified?	n/a	<input checked="" type="radio"/> yes	<input type="radio"/> no	Who: <u>MAY</u> Time: <u>5:00</u> Initials: <u>(Signature)</u>
Location where samples are stored:	<u>1E</u>			

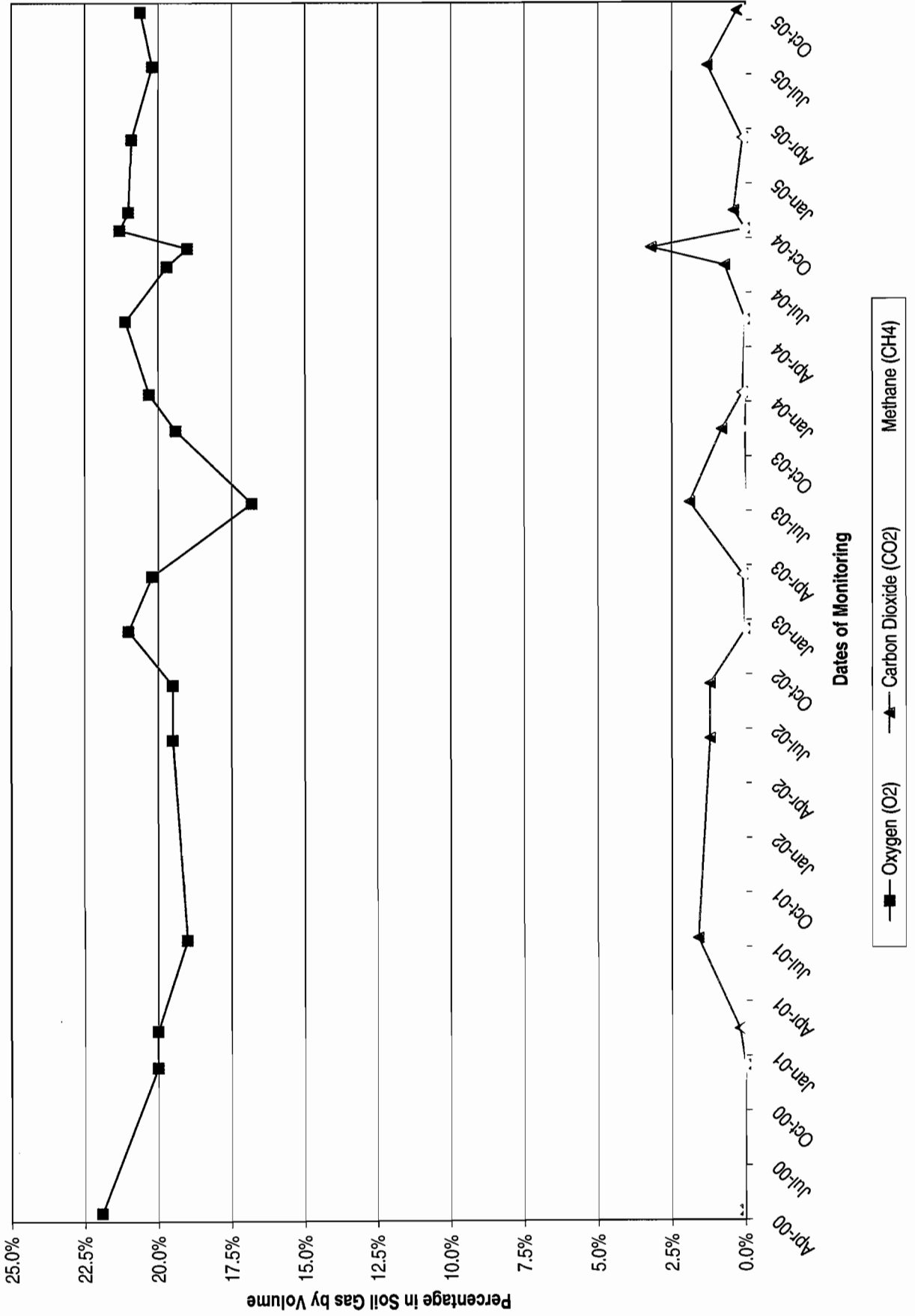
CONTAINERS RECEIVED AT CON-TEST	# of containers			COMMENTS
1 liter amber				
500 ml amber				
250 ml amber (8oz amber)				
1 liter plastic				
500 ml plastic				
250 ml plastic				
40 ml vial	<u>12</u>			
collisure bottle				
flashpoint bottle				
dissolved oxygen bottle				
1 liter clear jar				
8 oz clear jar				
4 oz clear jar				
2 oz clear jar				
plastic bag				
air cassette				
encore sample				
brass sleeves				
tubes				
summa cans				
other				

Laboratory Comments:

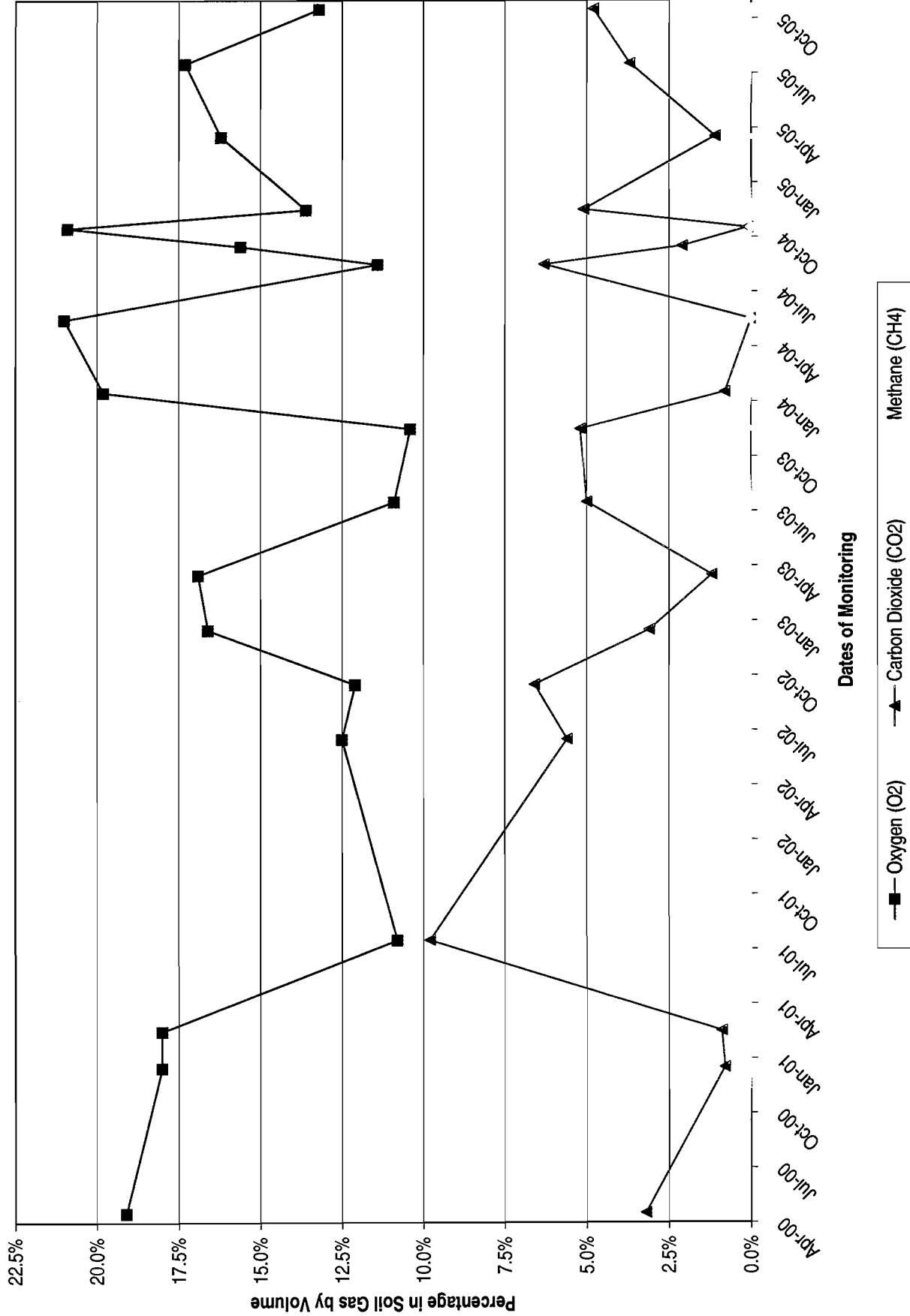
(2) Trip blanks not on CDL
+ confirmed mis

Attachment C
Soil Gas Graphs

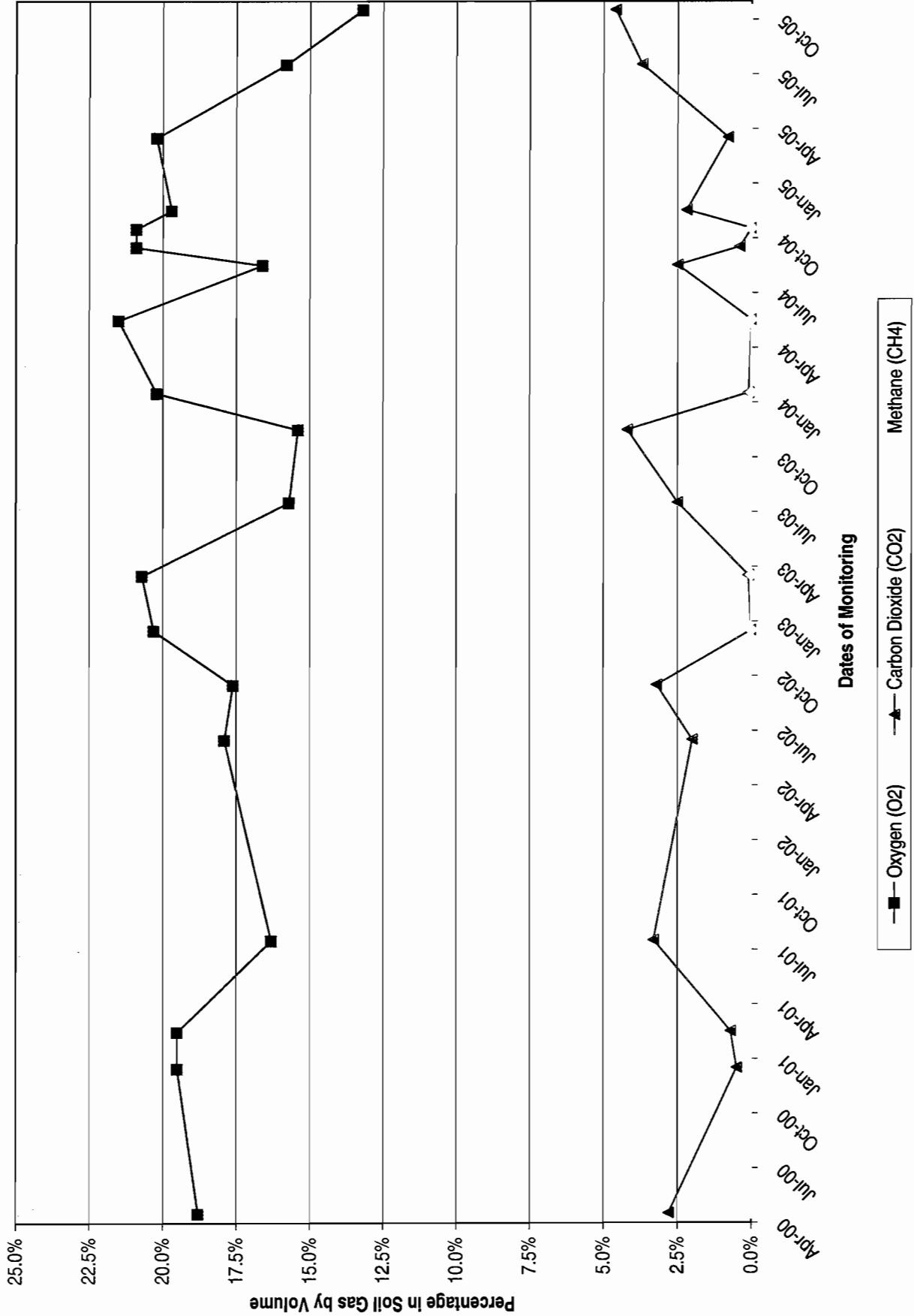
Soil Gas Well EPL1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



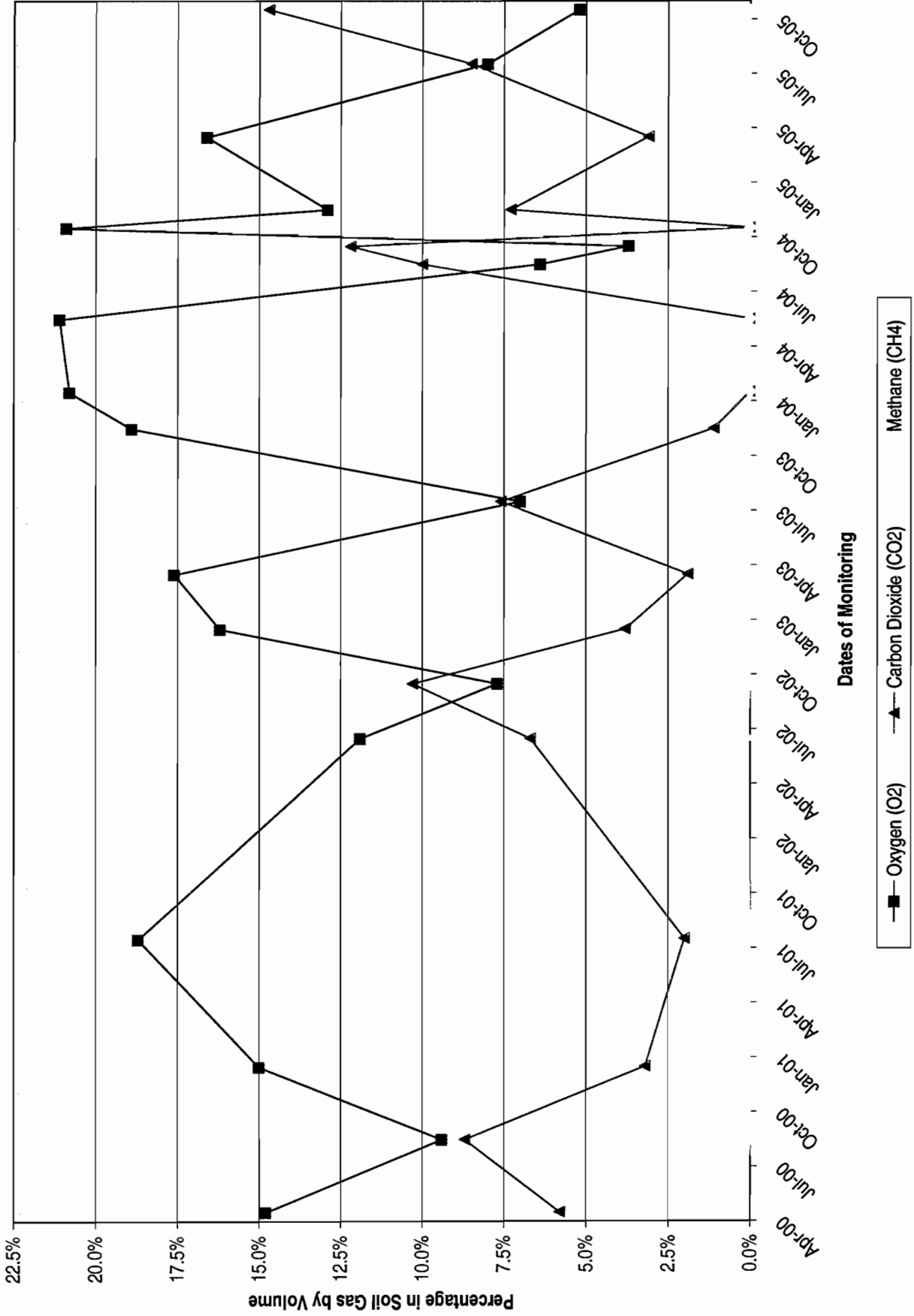
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



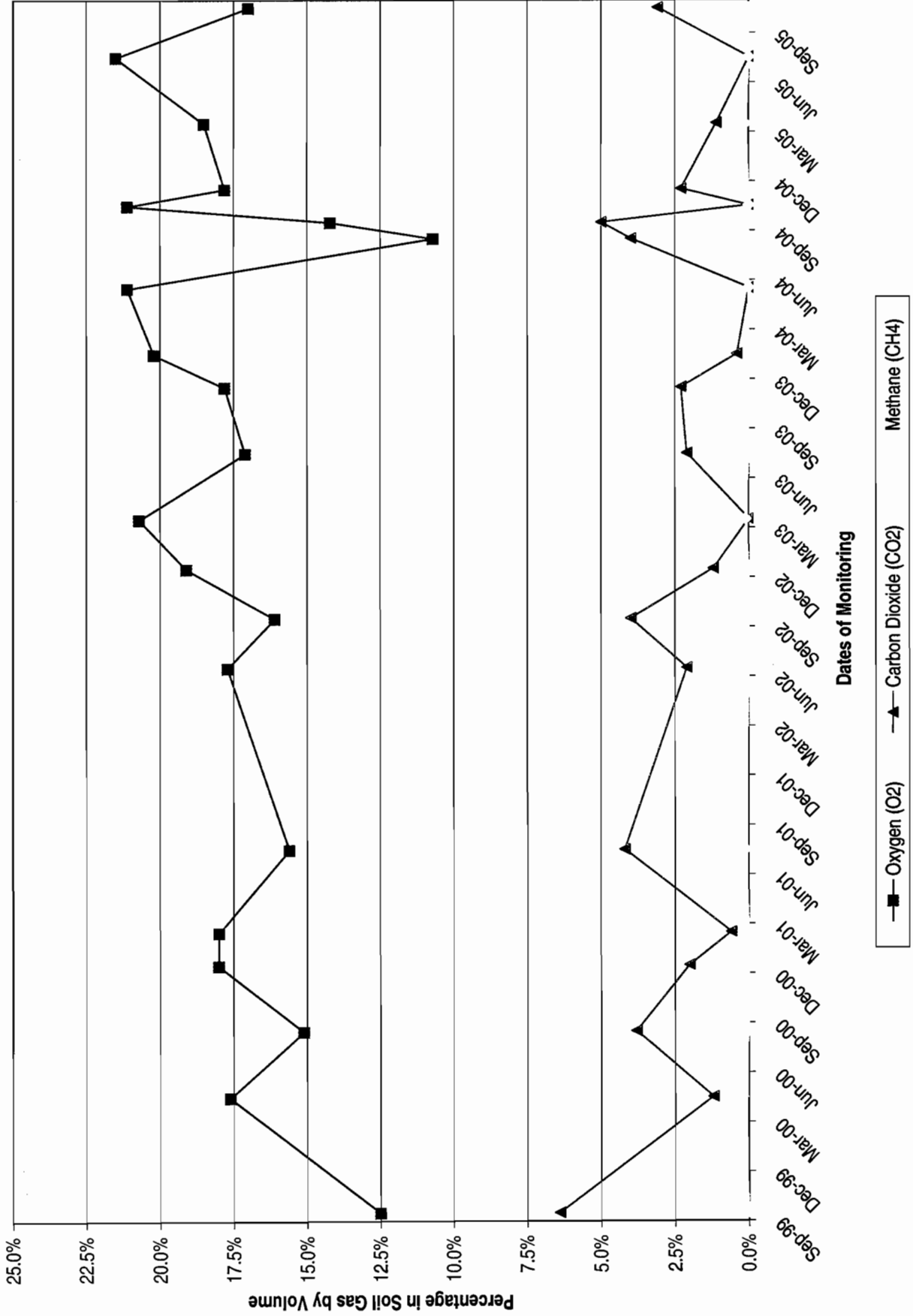
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



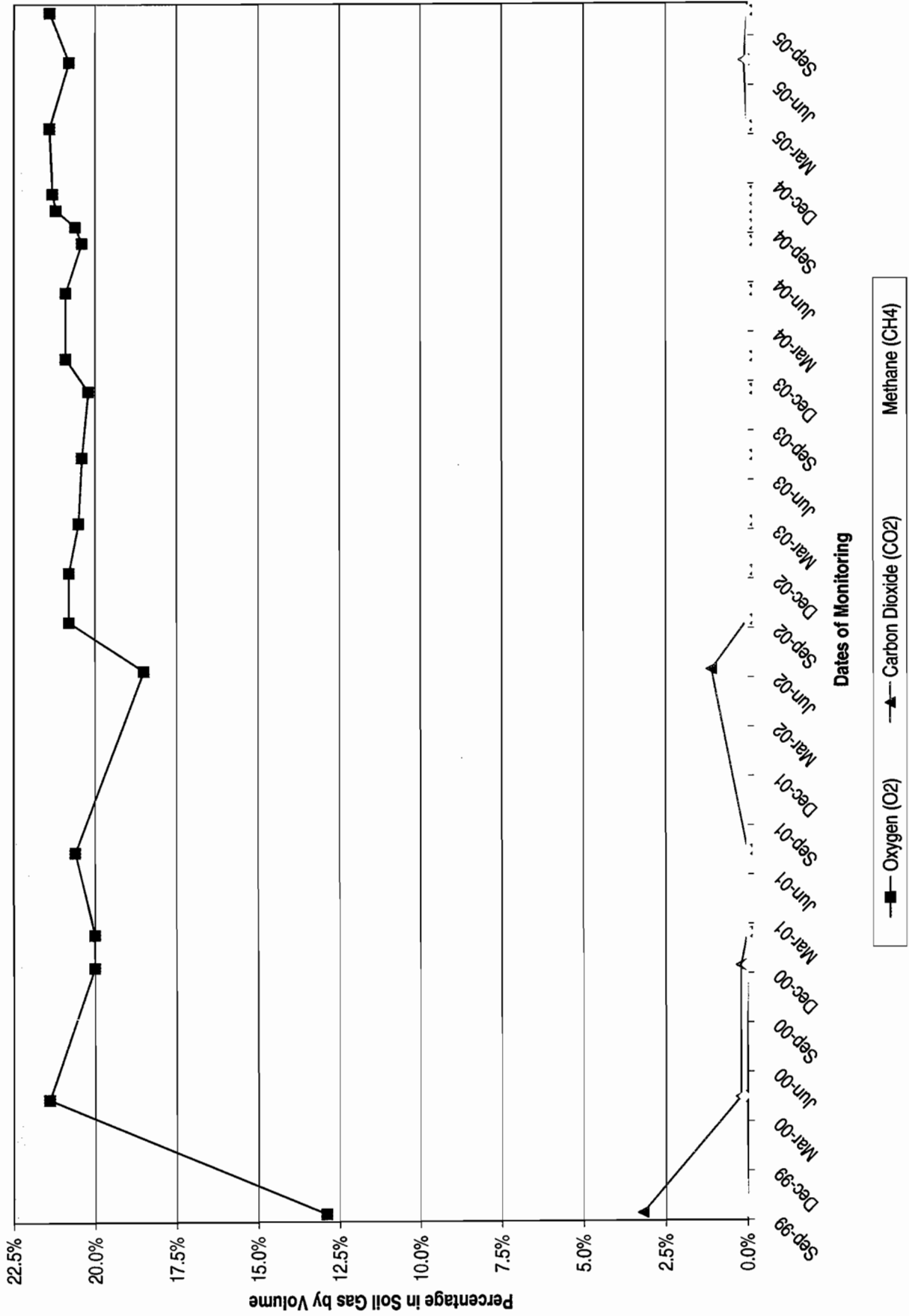
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



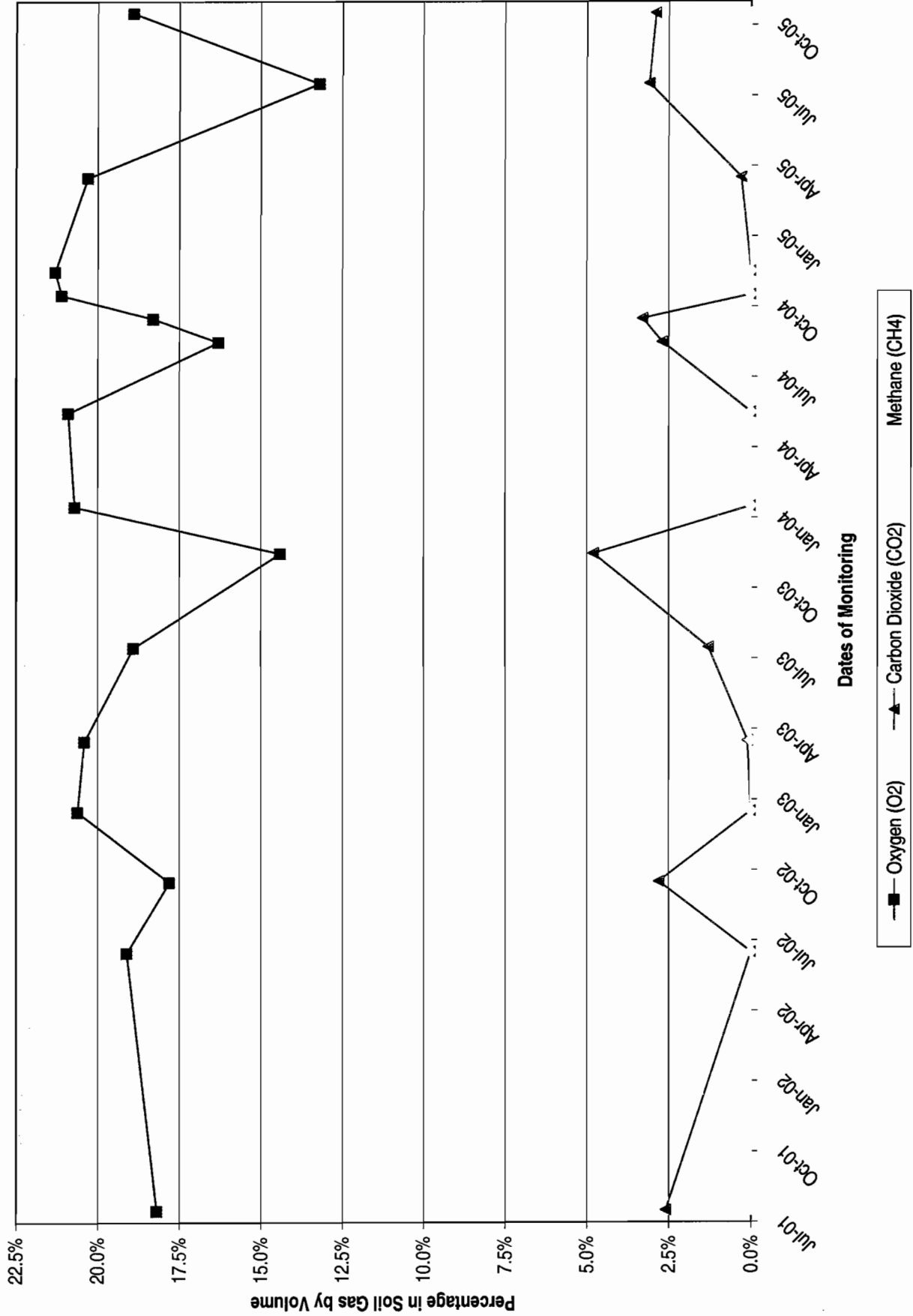
Soil Gas Well WB1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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



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



Attachment D

Laboratory Report for Soil Gas



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

REPORT DATE 11/3/2005

LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-92886
JOB NUMBER: -

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

PROJECT LOCATION: SPRINGFIELD ST. SCHOOL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
*MPL-6	05B42778	AIR	NOT SPECIFIED	to-14 ppbv
*MPL-6	05B42778	AIR	NOT SPECIFIED	to-14 ug/m3
*WB-2	05B42777	AIR	NOT SPECIFIED	to-14 ppbv
*WB-2	05B42777	AIR	NOT SPECIFIED	to-14 ug/m3

Comments :

LIMS BATCH NO. : LIMS-92886

48 HOUR TEDLAR BAG HOLDING TIME EXCEEDED BEFORE SAMPLES WERE ANALYZED.

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

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

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

Edward Denson 11/3/05

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

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



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

DONNA PALLISTER
 LEVINE FRICKE
 350 METRO CENTER BLVD., SUITE 250
 WARWICK, RI 02886

11/3/2005
 Page 1 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
 Date Received: 10/28/2005
 Field Sample #: MPL-6

LIMS-BAT #: LIMS-92886
 Job Number: -

Sample ID : *05B42778

Sampled : 10/27/2005

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	10/31/05	TPH	0.5			
Bromomethane	PPBv	ND	10/31/05	TPH	0.5			
Carbon Tetrachloride	PPBv	ND	10/31/05	TPH	0.5			
Chlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
Chloroethane	PPBv	ND	10/31/05	TPH	0.5			
Chloroform	PPBv	ND	10/31/05	TPH	0.5			
Chloromethane	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dibromoethane	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
1,3-Dichlorobenzene	PPBv	ND	10/31/05	TPH	2.0			
1,4-Dichlorobenzene	PPBv	ND	10/31/05	TPH	2.0			
Dichlorodifluoromethane	PPBv	ND	10/31/05	TPH	0.5			
1,1-Dichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,1-Dichloroethylene	PPBv	ND	10/31/05	TPH	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichloropropane	PPBv	ND	10/31/05	TPH	0.5			
cis-1,3-Dichloropropene	PPBv	ND	10/31/05	TPH	0.5			
trans-1,3-Dichloropropene	PPBv	ND	10/31/05	TPH	2.0			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	10/31/05	TPH	0.5			
Ethylbenzene	PPBv	0.6	10/31/05	TPH	0.5			
Hexachlorobutadiene	PPBv	ND	10/31/05	TPH	0.5			
Methylene Chloride	PPBv	ND	10/31/05	TPH	0.5			
Styrene	PPBv	0.6	10/31/05	TPH	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	10/31/05	TPH	0.5			
Tetrachloroethylene	PPBv	ND	10/31/05	TPH	0.5			
Toluene	PPBv	3.6	10/31/05	TPH	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
1,1,1-Trichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,1,2-Trichloroethane	PPBv	ND	10/31/05	TPH	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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



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

DONNA PALLISTER
LEVINE FRICKE
350 METRO CENTER BLVD., SUITE 250
WARWICK, RI 02886

11/3/2005
Page 2 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
Date Received: 10/28/2005
Field Sample #: MPL-6

LIMS-BAT #: LIMS-92886
Job Number: -

Sample ID : *05B42778 Sampled : 10/27/2005
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	PPBv	ND	10/31/05	TPH	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	ND	10/31/05	TPH	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	10/31/05	TPH	0.5		
1,2,4-Trimethylbenzene	PPBv	ND	10/31/05	TPH	2.0		
1,3,5-Trimethylbenzene	PPBv	ND	10/31/05	TPH	2.0		
Vinyl Chloride	PPBv	ND	10/31/05	TPH	0.5		
m/p-Xylene	PPBv	1.5	10/31/05	TPH	1.0		
o-Xylene	PPBv	ND	10/31/05	TPH	0.5		

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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



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DONNA PALLISTER
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 WARWICK, RI 02886

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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
 Date Received: 10/28/2005
 Field Sample #: WB-2

LIMS-BAT #: LIMS-92886
 Job Number: -

Sample ID: *05B42777 Sampled: 10/27/2005
 NOT SPECIFIED
 Sample Matrix: AIR Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	10/31/05	TPH	0.5			
Bromomethane	PPBv	ND	10/31/05	TPH	0.5			
Carbon Tetrachloride	PPBv	ND	10/31/05	TPH	0.5			
Chlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
Chloroethane	PPBv	ND	10/31/05	TPH	0.5			
Chloroform	PPBv	ND	10/31/05	TPH	0.5			
Chloromethane	PPBv	0.6	10/31/05	TPH	0.5			
1,2-Dibromoethane	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
1,3-Dichlorobenzene	PPBv	ND	10/31/05	TPH	2.0			
1,4-Dichlorobenzene	PPBv	ND	10/31/05	TPH	2.0			
Dichlorodifluoromethane	PPBv	0.6	10/31/05	TPH	0.5			
1,1-Dichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,1-Dichloroethylene	PPBv	ND	10/31/05	TPH	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	10/31/05	TPH	0.5			
1,2-Dichloropropane	PPBv	ND	10/31/05	TPH	0.5			
cis-1,3-Dichloropropene	PPBv	ND	10/31/05	TPH	0.5			
trans-1,3-Dichloropropene	PPBv	ND	10/31/05	TPH	2.0			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	10/31/05	TPH	0.5			
Ethylbenzene	PPBv	ND	10/31/05	TPH	0.5			
Hexachlorobutadiene	PPBv	ND	10/31/05	TPH	0.5			
Methylene Chloride	PPBv	12.	10/31/05	TPH	0.5			
Styrene	PPBv	ND	10/31/05	TPH	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	10/31/05	TPH	0.5			
Tetrachloroethylene	PPBv	ND	10/31/05	TPH	0.5			
Toluene	PPBv	2.2	10/31/05	TPH	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	10/31/05	TPH	0.5			
1,1,1-Trichloroethane	PPBv	ND	10/31/05	TPH	0.5			
1,1,2-Trichloroethane	PPBv	ND	10/31/05	TPH	0.5			

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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL

LIMS-BAT #: LIMS-92886

Date Received: 10/28/2005

Job Number: -

Field Sample #: WB-2

Sample ID: *05B42777

Sampled: 10/27/2005

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	10/31/05	TPH	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	10/31/05	TPH	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	1.6	10/31/05	TPH	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	10/31/05	TPH	2.0			
1,3,5-Trimethylbenzene	PPBv	ND	10/31/05	TPH	2.0			
Vinyl Chloride	PPBv	ND	10/31/05	TPH	0.5			
m/p-Xylene	PPBv	ND	10/31/05	TPH	1.0			
o-Xylene	PPBv	ND	10/31/05	TPH	0.5			

Analytical Method:

EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
 Date Received: 10/28/2005
 Field Sample #: MPL-6

LIMS-BAT #: LIMS-92886
 Job Number: -

Sample ID : 05B42778

Sampled : 10/27/2005

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	ND	10/31/05	TPH	1.6			
Bromomethane	ug/m3	ND	10/31/05	TPH	2.0			
Carbon Tetrachloride	ug/m3	ND	10/31/05	TPH	3.1			
Chlorobenzene	ug/m3	ND	10/31/05	TPH	2.3			
Chloroethane	ug/m3	ND	10/31/05	TPH	1.4			
Chloroform	ug/m3	ND	10/31/05	TPH	2.5			
Chloromethane	ug/m3	ND	10/31/05	TPH	1.1			
1,2-Dibromoethane	ug/m3	ND	10/31/05	TPH	3.9			
1,2-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	3.1			
1,3-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	13.			
1,4-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	13.			
Dichlorodifluoromethane	ug/m3	ND	10/31/05	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	10/31/05	TPH	2.1			
1,2-Dichloroethane	ug/m3	ND	10/31/05	TPH	2.1			
1,1-Dichloroethylene	ug/m3	ND	10/31/05	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	10/31/05	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	10/31/05	TPH	2.4			
cis-1,3-Dichloropropene	ug/m3	ND	10/31/05	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	10/31/05	TPH	9.1			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	10/31/05	TPH	3.5			
Ethylbenzene	ug/m3	2.5	10/31/05	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	10/31/05	TPH	5.4			
Methylene Chloride	ug/m3	ND	10/31/05	TPH	1.8			
Styrene	ug/m3	2.3	10/31/05	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	10/31/05	TPH	3.5			
Tetrachloroethylene	ug/m3	ND	10/31/05	TPH	3.4			
Toluene	ug/m3	14.	10/31/05	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	10/31/05	TPH	3.8			
1,1,1-Trichloroethane	ug/m3	ND	10/31/05	TPH	2.8			
1,1,2-Trichloroethane	ug/m3	ND	10/31/05	TPH	2.8			

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11/3/2005
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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
Date Received: 10/28/2005
Field Sample #: MPL-6

LIMS-BAT #: LIMS-92886
Job Number: -

Sample ID : 05B42778
Sampled : 10/27/2005
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	ND	10/31/05	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	10/31/05	TPH	2.9			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	10/31/05	TPH	3.9			
1,2,4-Trimethylbenzene	ug/m3	ND	10/31/05	TPH	9.9			
1,3,5-Trimethylbenzene	ug/m3	ND	10/31/05	TPH	9.9			
Vinyl Chloride	ug/m3	ND	10/31/05	TPH	1.3			
m/p-Xylene	ug/m3	6.3	10/31/05	TPH	4.3			
o-Xylene	ug/m3	ND	10/31/05	TPH	2.2			

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
 Date Received: 10/28/2005
 Field Sample #: WB-2

LIMS-BAT #: LIMS-92886
 Job Number: -

Sample ID: 05B42777 Sampled: 10/27/2005
 NOT SPECIFIED
 Sample Matrix: AIR Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Benzene	ug/m3	ND	10/31/05	TPH	1.6		
Bromomethane	ug/m3	ND	10/31/05	TPH	2.0		
Carbon Tetrachloride	ug/m3	ND	10/31/05	TPH	3.1		
Chlorobenzene	ug/m3	ND	10/31/05	TPH	2.3		
Chloroethane	ug/m3	ND	10/31/05	TPH	1.4		
Chloroform	ug/m3	ND	10/31/05	TPH	2.5		
Chloromethane	ug/m3	1.3	10/31/05	TPH	1.0		
1,2-Dibromoethane	ug/m3	ND	10/31/05	TPH	3.9		
1,2-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	3.1		
1,3-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	13.		
1,4-Dichlorobenzene	ug/m3	ND	10/31/05	TPH	13.		
Dichlorodifluoromethane	ug/m3	2.9	10/31/05	TPH	2.5		
1,1-Dichloroethane	ug/m3	ND	10/31/05	TPH	2.1		
1,2-Dichloroethane	ug/m3	ND	10/31/05	TPH	2.1		
1,1-Dichloroethylene	ug/m3	ND	10/31/05	TPH	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	10/31/05	TPH	2.0		
1,2-Dichloropropane	ug/m3	ND	10/31/05	TPH	2.4		
cis-1,3-Dichloropropene	ug/m3	ND	10/31/05	TPH	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	10/31/05	TPH	9.1		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	10/31/05	TPH	3.5		
Ethylbenzene	ug/m3	ND	10/31/05	TPH	2.2		
Hexachlorobutadiene	ug/m3	ND	10/31/05	TPH	5.4		
Methylene Chloride	ug/m3	42.	10/31/05	TPH	1.7		
Styrene	ug/m3	ND	10/31/05	TPH	2.2		
1,1,2,2-Tetrachloroethane	ug/m3	ND	10/31/05	TPH	3.5		
Tetrachloroethylene	ug/m3	ND	10/31/05	TPH	3.4		
Toluene	ug/m3	8.3	10/31/05	TPH	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	10/31/05	TPH	3.8		
1,1,1-Trichloroethane	ug/m3	ND	10/31/05	TPH	2.8		
1,1,2-Trichloroethane	ug/m3	ND	10/31/05	TPH	2.8		

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11/3/2005
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Purchase Order No.:

Project Location: SPRINGFIELD ST. SCHOOL
Date Received: 10/28/2005
Field Sample #: WB-2

LIMS-BAT #: LIMS-92886
Job Number: -

Sample ID : 05B42777 Sampled : 10/27/2005
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	ND	10/31/05	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	10/31/05	TPH	2.9			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	13.	10/31/05	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	10/31/05	TPH	9.9			
1,3,5-Trimethylbenzene	ug/m3	ND	10/31/05	TPH	9.9			
Vinyl Chloride	ug/m3	ND	10/31/05	TPH	1.3			
m/p-Xylene	ug/m3	ND	10/31/05	TPH	4.4			
o-Xylene	ug/m3	ND	10/31/05	TPH	2.2			

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

11/3/2005
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Project Location: SPRINGFIELD ST. SCHOOL
Date Received: 10/28/2005

LIMS-BAT #: LIMS-92886
Job Number: -

The following notes were attached to the reported analysis :

Sample ID: * 05B42777
Analysis: to-14 ppbv

SAMPLED IN TEDLAR BAGS. 48 HOUR HOLDING TIME EXCEEDED.

Sample ID: * 05B42778
Analysis: to-14 ppbv

SAMPLED IN TEDLAR BAGS. 48 HOUR HOLDING TIME EXCEEDED.

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 11/3/2005

Lims Bat #: LIMS-92886

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QC Batch Number: BATCH-10035

Sample Id	Analysis	QC Analysis	Values	Units	Limits
05B42777	4-Bromofluorobenzene	Surrogate Recovery	96.8	%	70-130
05B42778	4-Bromofluorobenzene	Surrogate Recovery	94.5	%	70-130
BLANK-80434	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.5	ug/m3	
	1,2-Dichloroethane	Blank	<2.1	ug/m3	
	1,4-Dichlorobenzene	Blank	<13.	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.2	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.8	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.9	ug/m3	
	Trichlorofluoromethane	Blank	<2.9	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<4.4	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.1	ug/m3	
	1,3-Dichlorobenzene	Blank	<13.	ug/m3	
	1,1-Dichloroethane	Blank	<2.1	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.8	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.1	ug/m3	
	Bromomethane	Blank	<2.0	ug/m3	
	Chloroethane	Blank	<1.4	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<9.1	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.8	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.5	ug/m3	
	Hexachlorobutadiene	Blank	<5.4	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.8	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<9.9	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<9.9	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.4	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.9	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	



QC SUMMARY REPORT

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

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

Report Date: 11/3/2005 Lims Bat #: LIMS-92886 Page 2 of 2

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 through 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



ANALYTICAL LABORATORY

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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: LFR
 Address: 300 Metro Center Blvd, suite 250
Worwick, RI 02886
 Attention: Donna Pallister
 Project Location: Springfield St. School
 Sampled By: A. Cote

Telephone: (401) 788-3887
 Project # _____
 Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax # : _____
 Email: Donna.Pallister@LFR.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes) yes no
 State Form Required? yes no

Field ID	Sample Description	Lab #	Date Sampled		Com- osite	Grab	*Matrix Code
			Start Date/Time	Stop Date/Time			
	WB-2	42777	1115	10/27/05		X	A
	MPL-6	42778	1235	10/27/05		X	A

ANALYSIS REQUESTED

ANALYSIS REQUESTED

Client
 Comments:

of containers
 **Preservation
 ~Cont. Code
 ~Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V=vial
 S=submit in can
 T=leakstar bag
 O=Other

Laboratory Comments:

Relinquished by: (signature) Anna Cote
 Date/Time: 10/27/05 1300
 Received by: (signature) [Signature]
 Date/Time: 10-28-05 1100
 Relinquished by: (signature) [Signature]
 Date/Time: 10-28-05 1715
 Received by: (signature) [Signature]
 Date/Time: 10/28/05 1715

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

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

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

**Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other None
 X = Na hydroxide
 T = Na thiosulfate

**Turnaround time begins at 9:00 a.m. the day after sample receipt (unless received before 2:00 p.m.)

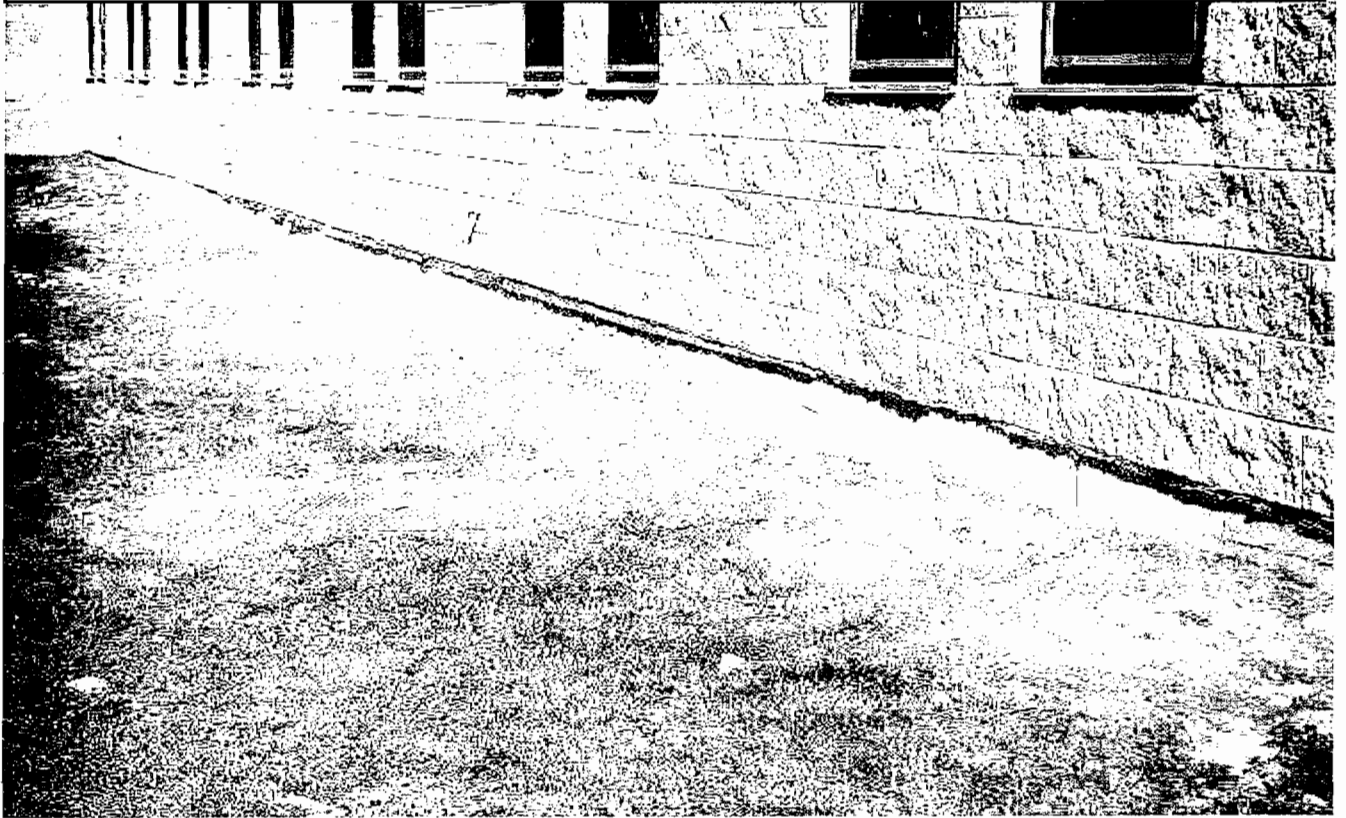
Con-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious AIHA and NELAC Certifications and WBE/DBE Certified!

MA 01028

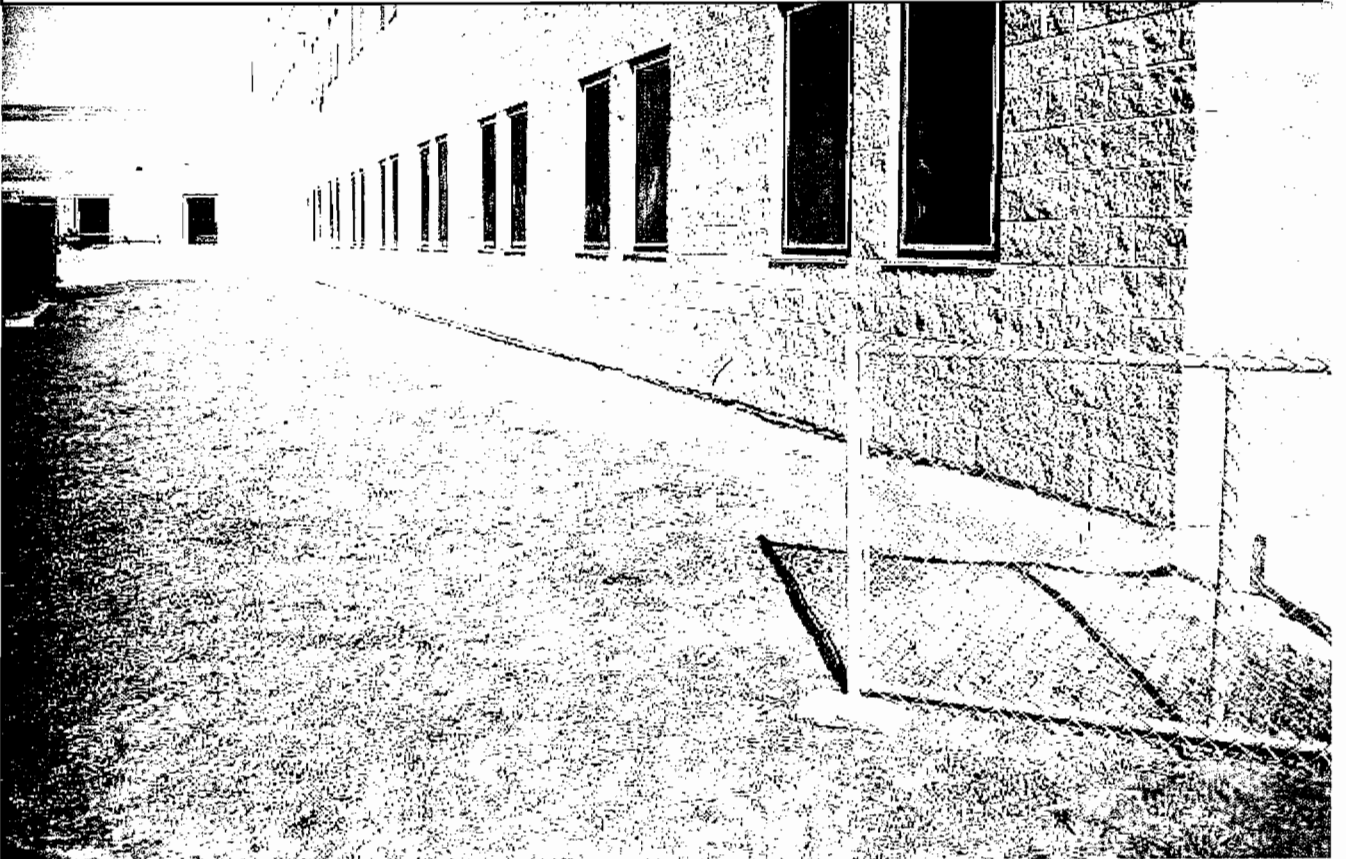
Appendix E

Photographs of Areas of Concern in Cap

West wall of Middle School where holes were repaired:



West wall of Middle School where holes were repaired:



Storm water catch basin in courtyard at Middle School:



Storm water catch basin in courtyard at Middle School:

