

January 24, 2002

Mr. Mal A. Salvatore
Sondler Salvatore and Associates
400 Reservoir Avenue
Providence, Rhode Island 02907

**Re: First Quarter, 2001-2002 Academic School Year (September 2001 –
December 2001)
Quarterly Monitoring Results
Springfield Street Schools
Providence, Rhode Island**

RECEIVED
D.E.M.
APR 11 3 32 PM '02

Dear Mr. Salvatore:

ATC has completed the first quarterly monitoring for the 2001-2002 academic year at the Springfield Street Schools located in Providence, Rhode Island. The monitoring was performed subject to the Long-Term Operation and Maintenance Plan and Site Contingency Plan (May 9, 1999). The Long-Term Operation and Maintenance Plan and Site Contingency Plan is part of the Remedial Action Work Plan dated April 2, 1999, revised May 3, 1999 and May 9, 1999, and approved by the Rhode Island Department on Environmental Management (RIDEM) on June 4, 1999.

On December 5th and 6th, 2001, the following monitoring processes were performed at the Springfield Street Schools: Soil Cover Monitoring, Sub Slab Ventilation System Monitoring, Soil Gas Monitoring, Groundwater Quality Monitoring, Indoor Air Quality Monitoring, and Methane Monitoring.

Soil Cover Monitoring

During construction an orange snow fence was lain as an indicator barrier. At least two feet of soil was spread over the orange snow fence to complete the cover. If the cover erodes or someone digs through the cover, the indicator barrier beneath the topsoil would become visible. Soil cover monitoring was performed to evaluate areas on-site for evidence of erosion or digging to the extent that the orange fence indicator barrier has been exposed. ATC did not observe the indicator fence exposed during the course of this monitoring episode.

Sub-Slab Ventilation System Monitoring

Monitoring of the Sub-Slab Ventilation System entailed checking all gauges, valves, and sensors; testing and evaluating the blowers; and checking and draining (if required) the moisture separators. One sample of influent and effluent gas was evaluated for the presence of methane, carbon monoxide, carbon dioxide, hydrogen sulfide, and volatile organic compounds. These constituents were not identified during the monitoring except for hydrogen sulfide at 2.0 parts per million (ppm) and carbon dioxide at 1.0% in the elementary school effluent. The hydrogen sulfide concentration is less than the OSHA prescribed Permissible Exposure Limit of 20 ppm. The OSHA Permissible Exposure Limit is used as a point of comparison even though it's typical application is for indoor air quality. The 2 ppm concentration detected is an end of pipe concentration. The anticipated concern at the ground or breathable areas of the school is expected to be significantly less. In fact, ATC monitored these areas to obtain a background concentration at the ground or breathable areas. ATC did not observe detectable concentrations of hydrogen sulfide in these areas. ATC recommends retesting the effluent from the elementary school system in January 2002. Refer to **Table 1** for the volatile organic compound results.

During this inspection the Sub-Slab Ventilation System blower units for the Elementary School were not running. According to school maintenance personnel the breakers tripped during a power outage the week before this inspection. Both units were re-started at the time of the inspection.

Likewise, one of the Sub-Slab Ventilation System blower units at the Middle School was not working during the time of the inspection. ATC contracted Walco Electric Co., to perform repairs on the unit. The second unit was functioning at the time of the inspection.

Due to concerns over the ability to monitor the Sub-Slab Ventilation System's operating status, ATC is in the process of designing a "monitoring program" which will incorporate personnel training (school personnel), monthly inspections by ATC, and indicator lights to identify if a unit is down.

Soil Gas Monitoring

Twenty-nine soil gas monitoring wells were installed on-site. All wells were inspected for damage. A broken seal at well WB5 prevented monitoring of this well. All wells were sampled using an air pump and portable monitoring equipment. Approximately 30 liters of air (approximately 2 well volumes) were extracted from each well prior to sampling. The air was monitored for oxygen, hydrogen sulfide, carbon monoxide, carbon dioxide, methane, and volatile organic compounds. Refer to **Table 2** for the soil gas monitoring results.

Groundwater Quality Monitoring

Five groundwater-monitoring wells were installed in December 2000, in the northern part of the site. These wells were sampled as part of this round of monitoring. Results are included in **Table 3**.

Indoor Air Quality Monitoring

ATC inspected the methane monitors installed within the Elementary School and the Middle School. The monitors were operating at the time of our visits, however several error messages were visible on the display panels, in both buildings, indicating calibration of the equipment is needed.

ATC has contacted Diamond Calibration Company, and is scheduling the firm to calibrate the monitors. Additionally, as part of the previously noted "monitoring program", ATC will incorporate a monthly calibration visit utilizing Diamond Calibration Company to ensure the methane monitors are operating at peak performance.

The visual inspection of the operating monitors indicates methane has not been detected within the buildings. ATC used direct read instruments to monitor the Elementary School and the Middle School for the presence of hydrogen sulfide, carbon monoxide and methane during the quarter. None of these constituents were detected at any concentration during the sampling.

If you have any questions regarding this letter please contact the undersigned at 401-431-2882.

Sincerely,

ATC Associates Inc.



James A. Pierson
Project Manager



Adam Sullivan
Senior Project Manager

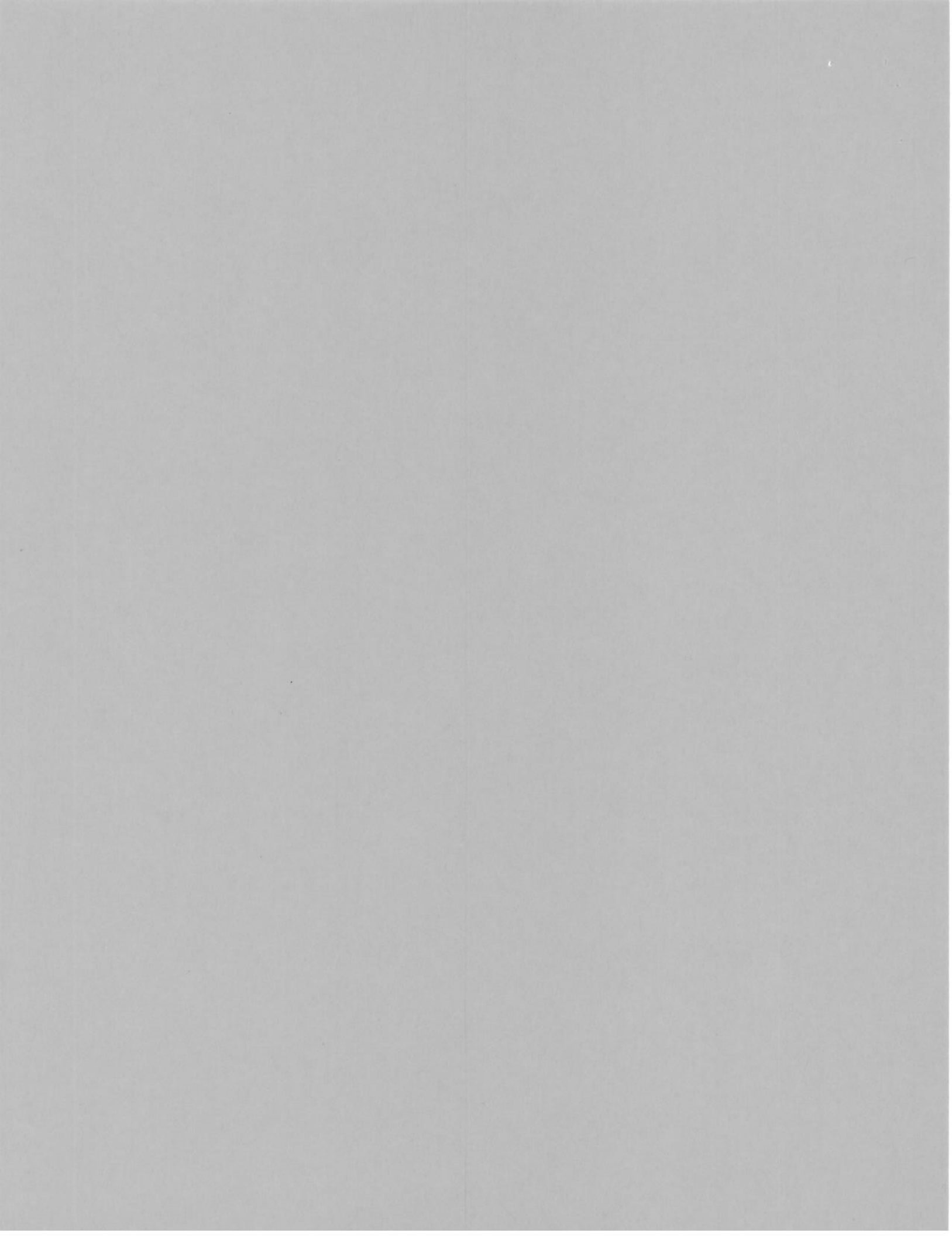


Table 1

**Vapor Phase Effluent Results
Springfield Street Elementary and Middle Schools
Sub-Slab Ventilation Systems
Volatile Organic Compounds
Fourth Quarter 2000**

Constituent	Elementary School	Middle School System No.1	Middle School System No.2
Hydrogen Sulfide*	2.0	0.0	NA
Methane**	0.0%	0.0%	NA
Carbon Monoxide*	0.0	0.0	NA
Carbon Dioxide**	1.0%	0.0%	NA
Volatile Organic Vapors*	0.0	0.0	NA

* Analytical results are reported in Parts Per Million according to instrument readings

**Analytical results are reported in percent according to instrument readings

NA= Not Analyzed due to blower failure

Table 2

**Soil Gas Survey Results
First Quarter 2001**

Soil Gas Monitoring Well Designation	Methane	Oxygen	Carbon Dioxide	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors
WB 1	0.0%	17.1%	3.1%	0.0	0.0	<1
WB-2	0.0%	14.2%	5.3%	0.	0.0	<1
WB-3	0.0%	13.9%	3.2%	0.0	1.0	<1
WB-4	0.0%	21.0%	0.0%	0.0	0.0	<1
WB-5	Well Destroyed					
WB-6	0.0%	20.3%	0.2%	0.0	0.0	0
WB-7	0.0%	16.7%	2.5%	0.0	0.0	0
WB-8	0.0%	20.5%	0.2%	0.0	0.0	0
EPL-1	0.0%	20.0%	0.7%	0.0	0.0	<1
EPL-2	0.0%	18.1%	1.8%	0.0	0.0	0
EPL-3	0.0%	16.8%	2.6%	0.0	1.0	0
EPL-4	0.0%	16.1%	3.2%	0.0	0.0	0
EPL-5	0.0%	14.1%	6.0%	0.0	0.0	<1
ENE-1	0.0%	13.3%	6.2%	0.0	0.0	<1
MG-5	0.0%	14.5%	3.9%	0.0	0.0	<1
MG4	0.0%	18.8%	1.4%	0.0	0.0	<1
MG3	0.0%	18.9%	1.3%	0.0	0.0	<1
MG2	0.0%	19.1%	2.3%	0.0	0.0	<1
MG1	0.0%	16.9%	3.3%	0.0	1.0	<1
MPL5	0.0%	11.4%	8.3%	0.0	0.0	<1
MPL3	0.0%	13.6%	6.1%	0.0	0.0	<1
MPL2	0.0%	15.4%	3.8%	0.0	0.0	<1
WB13	0.0%	17.0%	2.8%	0.0	1.0	<1
WB14	0.0%	20.2%	0.3%	0.0	0.0	<1
WB12	0.0%	20.3%	0.4%	0.0	1.0	<1
MPL8	0.0%	13.9%	5.4%	0.0	0.0	<1
MPL7	0.0%	12.2%	7.3%	0.0	0.0	<1
MPL6	0.0%	10.5%	6.4%	0.0	0.0	<1
MPL5	0.0%	11.4%	8.3%	0.0	0.0	<1
Remedial Action Work Plan Action Levels	0.5%	NA	1,000	9 PPM	10 PPM	5 PPM

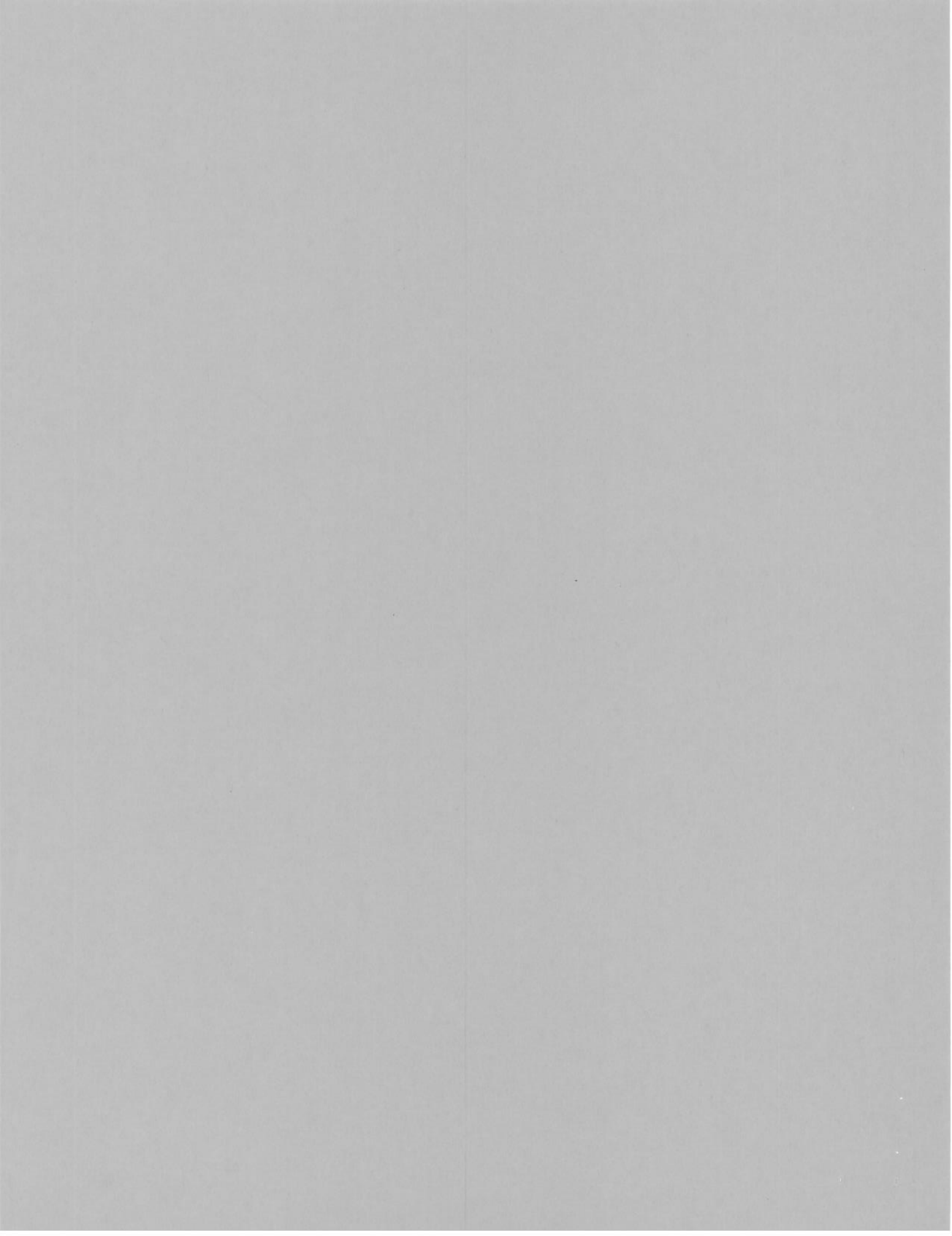
Table 2
(Continued)
Confirmatory Laboratory Analysis
Soil Gas Survey

Constituent	MG-1*	WB-3*
Dichlorodifluoromethane	0.81	ND
Chloromethane	0.73	ND
1,2-Dichlorotetrafluoroethane	ND	44
Trichlorofluoromethane	0.52	2.9
Methylene Chloride	32	1.5
1,1,2 Trichlorotrifluoroethane	1.1	ND
Benzene	0.85	ND
Trichloroethene	ND	1.1
Toluene	1.8	0.87
Tetrachloroethene	ND	2.0
M/P Xylene	0.57	0.55

*Results above are recorded in Parts Per Billion by Volume (PPBv)

Table 3
Confirmatory Laboratory Analysis
Ground Water Results
First Quarter 2001-2002

Constituent	ATC-1	ATC-2	ATC-3	ATC-4	ATC-5
MTBE	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	1.0 ug/l	ND
n-Butylbenzene	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	4.8 ug/l	ND
1,4-Dichlorobenzene	ND	ND	ND	4.3 ug/l	ND
Toluene	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND
Chloroform	2.0 ug/l	ND	ND	ND	ND





39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 12/18/01

ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914
ATTN: JIM PIERSON

CONTACT: JIM PIERSON
FIELD OFFICE: CR
CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-60373
JOB NUMBER: 83 17646.0007

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

PROJECT LOCATION: SPRINGFIELD ST

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MW-1	01B35142	GRND WATER	NOT SPECIFIED	8260 water
MW-2	01B35143	GRND WATER	NOT SPECIFIED	8260 water
MW-3	01B35144	GRND WATER	NOT SPECIFIED	8260 water
MW-4	01B35145	GRND WATER	NOT SPECIFIED	8260 water
MW-5	01B35146	GRND WATER	NOT SPECIFIED	8260 water

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

AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 10899	RHODE ISLAND (LIC. No. 112)

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

Edward Denson 12/19/01

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

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

NO VIALS

Client Name: ATC Telephone: 401-431-2882
 Attn: Tom Pierson Batch #: _____
 Address: 1970 Pawbuck Ave Project #: 8317646.0007
E. Providence Rl 02914
 Site Location: Springfield St Client P.O. #: _____
 Sampled By: T. Pierson
 Call Results: Yes No
 Fax Results: Yes No

LIMS 60372 LIMS
 Analysis Required 60373

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)	
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DKG WATER	Soil	Air			Other
MG-1	red bag bag	01B35140	12-5			X					X1		0	
WB-3	red bag bag	35141	12-5			X					X1		0	
MW-1	VDA	01B 35142	12-6			X		X2					V	X
MW-2		35143	12-6			X		X3					V	X
MW-3		35144	12-6			X		X2					V	X
MW-4		35145	12-6			X		X2					V	X
MW-5		35146	12-6			X		X2					V	X

0908
 11-01
 B260

CONTAINER CODE: P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other

RECEIVED BY: (Signature) _____ Date Time: 12-10-01
 RECEIVED BY: (Signature) _____ Date Time: 12-10-01
 RECEIVED BY: (Signature) _____ Date Time: 12-10-01

TURNAROUND REQUESTED: _____ 24-Hour _____ 48-Hour _____ Normal _____

REMARKS/COMMENTS: _____

*MATRIX OTHER _____

PRESERVATIVE CODE: I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER

JIM PIERSON
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR
 Purchase Order No.:

12/18/01
 Page 1 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-1

Sample ID : 01B35142 Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/14/01	BGL	50.0			
Acrolein	ug/l	ND	12/14/01	BGL	20.0			
Acrylonitrile	ug/l	ND	12/14/01	BGL	7.6			
Benzene	ug/l	ND	12/14/01	BGL	0.6			
Bromobenzene	ug/l	ND	12/14/01	BGL	0.5			
Bromochloromethane	ug/l	ND	12/14/01	BGL	0.7			
Bromodichloromethane	ug/l	ND	12/14/01	BGL	0.4			
Bromomethane	ug/l	ND	12/14/01	BGL	1.2			
Bromoform	ug/l	ND	12/14/01	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	12/14/01	BGL	12.0			
n-Butylbenzene	ug/l	ND	12/14/01	BGL	0.7			
sec-Butylbenzene	ug/l	ND	12/14/01	BGL	0.6			
tert-Butylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Carbon Disulfide	ug/l	ND	12/14/01	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	12/14/01	BGL	0.5			
Chlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
Chlorodibromomethane	ug/l	ND	12/14/01	BGL	0.5			
Chloroethane	ug/l	ND	12/14/01	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	12/14/01	BGL	9.6			
Chloroform	ug/l	2.0	12/14/01	BGL	0.8			
Chloromethane	ug/l	ND	12/14/01	BGL	1.2			
2-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
4-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/14/01	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	12/14/01	BGL	0.7			
Dibromomethane	ug/l	ND	12/14/01	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.4			

RL = Reporting Limit
 ND = Not Detected
 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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JIM PIERSON
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR

12/18/01
 Page 2 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-1

Purchase Order No.:

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Sample ID : 01B35142

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	12/14/01	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	12/14/01	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	12/14/01	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	12/14/01	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.4			
Ethyl Benzene	ug/l	ND	12/14/01	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	12/14/01	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	12/14/01	BGL	1.3			
2-Hexanone	ug/l	ND	12/14/01	BGL	9.7			
Iodomethane	ug/l	ND	12/14/01	BGL	0.8			
Isopropylbenzene	ug/l	ND	12/14/01	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	12/14/01	BGL	0.7			
MTBE	ug/l	ND	12/14/01	BGL	0.8			
Methylene Chloride	ug/l	ND	12/14/01	BGL	3.0			
MIBK	ug/l	ND	12/14/01	BGL	8.8			
Naphthalene	ug/l	ND	12/14/01	BGL	1.0			
n-Propylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Styrene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	1.4			
Tetrachloroethylene	ug/l	ND	12/14/01	BGL	0.4			
Toluene	ug/l	ND	12/14/01	BGL	0.7			

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JIM PIERSON
ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
Field Office: CR
Purchase Order No.:

12/18/01
Page 3 of 16

Project Location: SPRINGFIELD ST
Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
Job Number: 83 17646.0007

Field Sample # : MW-1

Sample ID : 01B35142

Sampled : 12/6/01
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/14/01	BGL	0.7			
Trichloroethylene	ug/l	ND	12/14/01	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	12/14/01	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/14/01	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/14/01	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/14/01	BGL	1.0			
Vinyl Acetate	ug/l	ND	12/14/01	BGL	16.4			
Vinyl Chloride	ug/l	ND	12/14/01	BGL	0.3			
m + p Xylene	ug/l	ND	12/14/01	BGL	1.3			
o-Xylene	ug/l	ND	12/14/01	BGL	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected

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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JIM PIERSON
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR

12/18/01
 Page 4 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-2

Purchase Order No.:

Sample ID : 01B35143

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/14/01	BGL	50.0			
Acrolein	ug/l	ND	12/14/01	BGL	20.0			
Acrylonitrile	ug/l	ND	12/14/01	BGL	7.6			
Benzene	ug/l	ND	12/14/01	BGL	0.6			
Bromobenzene	ug/l	ND	12/14/01	BGL	0.5			
Bromochloromethane	ug/l	ND	12/14/01	BGL	0.7			
Bromodichloromethane	ug/l	ND	12/14/01	BGL	0.4			
Bromomethane	ug/l	ND	12/14/01	BGL	1.2			
Bromoform	ug/l	ND	12/14/01	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	12/14/01	BGL	12.0			
n-Butylbenzene	ug/l	ND	12/14/01	BGL	0.7			
sec-Butylbenzene	ug/l	ND	12/14/01	BGL	0.6			
tert-Butylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Carbon Disulfide	ug/l	ND	12/14/01	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	12/14/01	BGL	0.5			
Chlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
Chlorodibromomethane	ug/l	ND	12/14/01	BGL	0.5			
Chloroethane	ug/l	ND	12/14/01	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	12/14/01	BGL	9.6			
Chloroform	ug/l	ND	12/14/01	BGL	0.8			
Chloromethane	ug/l	ND	12/14/01	BGL	1.2			
2-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
4-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/14/01	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	12/14/01	BGL	0.7			
Dibromomethane	ug/l	ND	12/14/01	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.4			

RL = Reporting Limit
 ND = Not Detected
 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

JIM PIERSON
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 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-2

Purchase Order No.:

Sample ID : 01B35143

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	12/14/01	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	12/14/01	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	12/14/01	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	12/14/01	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.4			
Ethyl Benzene	ug/l	ND	12/14/01	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	12/14/01	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	12/14/01	BGL	1.3			
2-Hexanone	ug/l	ND	12/14/01	BGL	9.7			
Iodomethane	ug/l	ND	12/14/01	BGL	0.8			
Isopropylbenzene	ug/l	ND	12/14/01	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	12/14/01	BGL	0.7			
MTBE	ug/l	ND	12/14/01	BGL	0.8			
Methylene Chloride	ug/l	ND	12/14/01	BGL	3.0			
MIBK	ug/l	ND	12/14/01	BGL	8.8			
Naphthalene	ug/l	ND	12/14/01	BGL	1.0			
n-Propylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Styrene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	1.4			
Tetrachloroethylene	ug/l	ND	12/14/01	BGL	0.4			
Toluene	ug/l	ND	12/14/01	BGL	0.7			

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Contact Reference : JIM PIERSON

Field Office: CR

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Purchase Order No.:

Project Location: SPRINGFIELD ST

LIMS-BAT #: LIMS-60373

Date Received: 12/10/01

Job Number: 83 17646.0007

Field Sample #: MW-2

Sample ID : 01B35143

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/14/01	BGL	0.7			
Trichloroethylene	ug/l	ND	12/14/01	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	12/14/01	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/14/01	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/14/01	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/14/01	BGL	1.0			
Vinyl Acetate	ug/l	ND	12/14/01	BGL	16.4			
Vinyl Chloride	ug/l	ND	12/14/01	BGL	0.3			
m + p Xylene	ug/l	ND	12/14/01	BGL	1.3			
o-Xylene	ug/l	ND	12/14/01	BGL	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Contact Reference : JIM PIERSON
 Field Office: CR

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Purchase Order No.:

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-3

Sample ID : 01B35144

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/14/01	BGL	50.0			
Acrolein	ug/l	ND	12/14/01	BGL	20.0			
Acrylonitrile	ug/l	ND	12/14/01	BGL	7.6			
Benzene	ug/l	ND	12/14/01	BGL	0.6			
Bromobenzene	ug/l	ND	12/14/01	BGL	0.5			
Bromochloromethane	ug/l	ND	12/14/01	BGL	0.7			
Bromodichloromethane	ug/l	ND	12/14/01	BGL	0.4			
Bromomethane	ug/l	ND	12/14/01	BGL	1.2			
Bromoform	ug/l	ND	12/14/01	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	12/14/01	BGL	12.0			
n-Butylbenzene	ug/l	ND	12/14/01	BGL	0.7			
sec-Butylbenzene	ug/l	ND	12/14/01	BGL	0.6			
tert-Butylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Carbon Disulfide	ug/l	ND	12/14/01	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	12/14/01	BGL	0.5			
Chlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
Chlorodibromomethane	ug/l	ND	12/14/01	BGL	0.5			
Chloroethane	ug/l	ND	12/14/01	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	12/14/01	BGL	9.6			
Chloroform	ug/l	ND	12/14/01	BGL	0.8			
Chloromethane	ug/l	ND	12/14/01	BGL	1.2			
2-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
4-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/14/01	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	12/14/01	BGL	0.7			
Dibromomethane	ug/l	ND	12/14/01	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.4			

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Contact Reference : JIM PIERSON
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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-3

Sample ID : 01B35144

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	12/14/01	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	12/14/01	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	12/14/01	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	12/14/01	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.4			
Ethyl Benzene	ug/l	ND	12/14/01	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	12/14/01	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	12/14/01	BGL	1.3			
2-Hexanone	ug/l	ND	12/14/01	BGL	9.7			
Iodomethane	ug/l	ND	12/14/01	BGL	0.8			
Isopropylbenzene	ug/l	ND	12/14/01	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	12/14/01	BGL	0.7			
MTBE	ug/l	ND	12/14/01	BGL	0.8			
Methylene Chloride	ug/l	ND	12/14/01	BGL	3.0			
MIBK	ug/l	ND	12/14/01	BGL	8.8			
Naphthalene	ug/l	ND	12/14/01	BGL	1.0			
n-Propylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Styrene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	1.4			
Tetrachloroethylene	ug/l	ND	12/14/01	BGL	0.4			
Toluene	ug/l	ND	12/14/01	BGL	0.7			

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39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

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Contact Reference : JIM PIERSON
Field Office: CR

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Purchase Order No.:

Project Location: SPRINGFIELD ST
Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
Job Number: 83 17646.0007

Field Sample # : MW-3

Sample ID : 01B35144

Sampled : 12/6/01
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,2,3-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7		
1,2,4-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7		
1,1,1-Trichloroethane	ug/l	ND	12/14/01	BGL	0.9		
1,1,2-Trichloroethane	ug/l	ND	12/14/01	BGL	0.7		
Trichloroethylene	ug/l	ND	12/14/01	BGL	1.0		
Trichlorofluoromethane	ug/l	ND	12/14/01	BGL	0.7		
1,2,3-Trichloropropane	ug/l	ND	12/14/01	BGL	1.3		
1,2,4-Trimethylbenzene	ug/l	ND	12/14/01	BGL	0.7		
1,3,5-Trimethylbenzene	ug/l	ND	12/14/01	BGL	1.0		
Vinyl Acetate	ug/l	ND	12/14/01	BGL	16.4		
Vinyl Chloride	ug/l	ND	12/14/01	BGL	0.3		
m + p Xylene	ug/l	ND	12/14/01	BGL	1.3		
o-Xylene	ug/l	ND	12/14/01	BGL	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-4

Purchase Order No.:

Sample ID : 01B35145

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/14/01	BGL	50.0			
Acrolein	ug/l	ND	12/14/01	BGL	20.0			
Acrylonitrile	ug/l	ND	12/14/01	BGL	7.6			
Benzene	ug/l	1.0	12/14/01	BGL	0.6			
Bromobenzene	ug/l	ND	12/14/01	BGL	0.5			
Bromochloromethane	ug/l	ND	12/14/01	BGL	0.7			
Bromodichloromethane	ug/l	ND	12/14/01	BGL	0.4			
Bromomethane	ug/l	ND	12/14/01	BGL	1.2			
Bromoform	ug/l	ND	12/14/01	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	12/14/01	BGL	12.0			
n-Butylbenzene	ug/l	ND	12/14/01	BGL	0.7			
sec-Butylbenzene	ug/l	ND	12/14/01	BGL	0.6			
tert-Butylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Carbon Disulfide	ug/l	ND	12/14/01	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	12/14/01	BGL	0.5			
Chlorobenzene	ug/l	4.8	12/14/01	BGL	0.6			
Chlorodibromomethane	ug/l	ND	12/14/01	BGL	0.5			
Chloroethane	ug/l	ND	12/14/01	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	12/14/01	BGL	9.6			
Chloroform	ug/l	ND	12/14/01	BGL	0.8			
Chloromethane	ug/l	ND	12/14/01	BGL	1.2			
2-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
4-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/14/01	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	12/14/01	BGL	0.7			
Dibromomethane	ug/l	ND	12/14/01	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
1,4-Dichlorobenzene	ug/l	4.3	12/14/01	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.4			

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-4

Purchase Order No.:

Sample ID : 01B35145

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	12/14/01	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	12/14/01	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	12/14/01	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	12/14/01	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.4			
Ethyl Benzene	ug/l	ND	12/14/01	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	12/14/01	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	12/14/01	BGL	1.3			
2-Hexanone	ug/l	ND	12/14/01	BGL	9.7			
Iodomethane	ug/l	ND	12/14/01	BGL	0.8			
Isopropylbenzene	ug/l	ND	12/14/01	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	12/14/01	BGL	0.7			
MTBE	ug/l	ND	12/14/01	BGL	0.8			
Methylene Chloride	ug/l	ND	12/14/01	BGL	3.0			
MIBK	ug/l	ND	12/14/01	BGL	8.8			
Naphthalene	ug/l	ND	12/14/01	BGL	1.0			
n-Propylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Styrene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	1.4			
Tetrachloroethylene	ug/l	ND	12/14/01	BGL	0.4			
Toluene	ug/l	ND	12/14/01	BGL	0.7			

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-4

Sample ID : 01B35145

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/14/01	BGL	0.7			
Trichloroethylene	ug/l	ND	12/14/01	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	12/14/01	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/14/01	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/14/01	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/14/01	BGL	1.0			
Vinyl Acetate	ug/l	ND	12/14/01	BGL	16.4			
Vinyl Chloride	ug/l	ND	12/14/01	BGL	0.3			
m + p Xylene	ug/l	ND	12/14/01	BGL	1.3			
o-Xylene	ug/l	ND	12/14/01	BGL	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

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NM = Not Measured

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

JIM PIERSON
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR

12/18/01
 Page 13 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-5

Purchase Order No.:

Sample ID : 01B35146

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/14/01	BGL	50.0			
Acrolein	ug/l	ND	12/14/01	BGL	20.0			
Acrylonitrile	ug/l	ND	12/14/01	BGL	7.6			
Benzene	ug/l	ND	12/14/01	BGL	0.6			
Bromobenzene	ug/l	ND	12/14/01	BGL	0.5			
Bromochloromethane	ug/l	ND	12/14/01	BGL	0.7			
Bromodichloromethane	ug/l	ND	12/14/01	BGL	0.4			
Bromomethane	ug/l	ND	12/14/01	BGL	1.2			
Bromoform	ug/l	ND	12/14/01	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	12/14/01	BGL	12.0			
n-Butylbenzene	ug/l	ND	12/14/01	BGL	0.7			
sec-Butylbenzene	ug/l	ND	12/14/01	BGL	0.6			
tert-Butylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Carbon Disulfide	ug/l	ND	12/14/01	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	12/14/01	BGL	0.5			
Chlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
Chlorodibromomethane	ug/l	ND	12/14/01	BGL	0.5			
Chloroethane	ug/l	ND	12/14/01	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	12/14/01	BGL	9.6			
Chloroform	ug/l	ND	12/14/01	BGL	0.8			
Chloromethane	ug/l	ND	12/14/01	BGL	1.2			
2-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
4-Chlorotoluene	ug/l	ND	12/14/01	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/14/01	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	12/14/01	BGL	0.7			
Dibromomethane	ug/l	ND	12/14/01	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/14/01	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.4			

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Contact Reference : JIM PIERSON
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12/18/01
 Page 14 of 16

Purchase Order No.:

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-5

Sample ID : 01B35146

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/14/01	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	12/14/01	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	12/14/01	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/14/01	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	12/14/01	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	12/14/01	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	12/14/01	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/14/01	BGL	0.4			
Ethyl Benzene	ug/l	ND	12/14/01	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	12/14/01	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	12/14/01	BGL	1.3			
2-Hexanone	ug/l	ND	12/14/01	BGL	9.7			
Iodomethane	ug/l	ND	12/14/01	BGL	0.8			
Isopropylbenzene	ug/l	ND	12/14/01	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	12/14/01	BGL	0.7			
MTBE	ug/l	ND	12/14/01	BGL	0.8			
Methylene Chloride	ug/l	ND	12/14/01	BGL	3.0			
MIBK	ug/l	ND	12/14/01	BGL	8.8			
Naphthalene	ug/l	ND	12/14/01	BGL	1.0			
n-Propylbenzene	ug/l	ND	12/14/01	BGL	0.8			
Styrene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/14/01	BGL	1.4			
Tetrachloroethylene	ug/l	ND	12/14/01	BGL	0.4			
Toluene	ug/l	ND	12/14/01	BGL	0.7			

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12/18/01
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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01

LIMS-BAT #: LIMS-60373
 Job Number: 83 17646.0007

Field Sample # : MW-5

Purchase Order No.:

Sample ID : 01B35146

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/14/01	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/14/01	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/14/01	BGL	0.7			
Trichloroethylene	ug/l	ND	12/14/01	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	12/14/01	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/14/01	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/14/01	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/14/01	BGL	1.0			
Vinyl Acetate	ug/l	ND	12/14/01	BGL	16.4			
Vinyl Chloride	ug/l	ND	12/14/01	BGL	0.3			
m + p Xylene	ug/l	ND	12/14/01	BGL	1.3			
o-Xylene	ug/l	ND	12/14/01	BGL	0.5			

Analytical Method:

SW846 8260

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39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JIM PIERSON
ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914

Project Location: SPRINGFIELD ST
Date Received: 12/10/01

Contact Reference : JIM PIERSON

Field Office: CR

Purchase Order No.:

12/18/01

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LIMS-BAT #: LIMS-60373

Job Number: 83 17646.0007

** END OF REPORT **

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ND = Not Detected

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39 Spruce Street ° 2nd Floor ° 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: 12/18/01

Lims Bat #: LIMS-60373

Page 1 of 5

QC Batch Number: GCMS/VOL-6877

Sample Id	Analysis	QC Analysis	Values	Units	Limits
01B35142	Benzene	Sample Amount	<0.6	ug/l	
		Matrix Spk Amt Added	40.0	ug/l	
		MS Amt Measured	38.0	ug/l	
		Matrix Spike % Rec.	95.0	%	59-143
	Chloroform	Sample Amount	2.0	ug/l	
		Duplicate Value	1.5	ug/l	
		Duplicate RPD	26.1	%	
	Toluene	Sample Amount	<0.7	ug/l	
		Matrix Spk Amt Added	40.0	ug/l	
		MS Amt Measured	34.0	ug/l	
		Matrix Spike % Rec.	85.0	%	63-138
	Trichloroethylene	Sample Amount	<1.0	ug/l	
		Matrix Spk Amt Added	40.0	ug/l	
		MS Amt Measured	34.0	ug/l	
		Matrix Spike % Rec.	85.0	%	61-121
	1,1-Dichloroethylene	Sample Amount	<0.6	ug/l	
Matrix Spk Amt Added		40.0	ug/l		
MS Amt Measured		34.0	ug/l		
Matrix Spike % Rec.		85.0	%	49-144	
Chlorobenzene	Sample Amount	<0.6	ug/l		
	Matrix Spk Amt Added	40.0	ug/l		
	MS Amt Measured	35.0	ug/l		
	Matrix Spike % Rec.	87.5	%	64-127	
1,2-Dichloroethane-d4	Surrogate Recovery	118.0	%	56-128	
Toluene-d8	Surrogate Recovery	97.6	%	65-113	
Bromofluorobenzene	Surrogate Recovery	104.0	%	62-137	
01B35143	1,2-Dichloroethane-d4	Surrogate Recovery	108.0	%	56-128
	Toluene-d8	Surrogate Recovery	96.0	%	65-113
	Bromofluorobenzene	Surrogate Recovery	100.0	%	62-137
01B35144	1,2-Dichloroethane-d4	Surrogate Recovery	112.0	%	56-128
	Toluene-d8	Surrogate Recovery	96.0	%	65-113
	Bromofluorobenzene	Surrogate Recovery	96.0	%	62-137
01B35145	1,2-Dichloroethane-d4	Surrogate Recovery	109.6	%	56-128
	Toluene-d8	Surrogate Recovery	94.0	%	65-113
	Bromofluorobenzene	Surrogate Recovery	98.4	%	62-137
01B35146	1,2-Dichloroethane-d4	Surrogate Recovery	109.6	%	56-128
	Toluene-d8	Surrogate Recovery	96.0	%	65-113
	Bromofluorobenzene	Surrogate Recovery	96.0	%	62-137

BLANK-38601



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/18/01

Lims Bat #: LIMS-60373

Page 2 of 5

QC Batch Number: GCMS/VOL-6877

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-38601	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<0.6	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	<0.8	ug/l	
	1,2-Dichloroethane	Blank	<0.9	ug/l	
	1,4-Dichlorobenzene	Blank	<0.8	ug/l	
	Ethyl Benzene	Blank	<0.6	ug/l	
	2-Butanone (MEK)	Blank	<12.0	ug/l	
	MIBK	Blank	<8.8	ug/l	
	Naphthalene	Blank	<1.0	ug/l	
	Styrene	Blank	<0.7	ug/l	
	Tetrachloroethylene	Blank	<0.4	ug/l	
	Toluene	Blank	<0.7	ug/l	
	1,1,1-Trichloroethane	Blank	<0.9	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	Trichlorofluoromethane	Blank	<0.7	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.3	ug/l	
	1,2-Dichlorobenzene	Blank	<0.8	ug/l	
	1,3-Dichlorobenzene	Blank	<0.6	ug/l	
	1,1-Dichloroethane	Blank	<0.7	ug/l	
	1,1-Dichloroethylene	Blank	<0.6	ug/l	
	MTBE	Blank	<0.8	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.8	ug/l	
	Vinyl Chloride	Blank	<0.3	ug/l	
	Methylene Chloride	Blank	3.6	ug/l	
	Chlorobenzene	Blank	<0.6	ug/l	
	Chloromethane	Blank	<1.2	ug/l	
	Bromomethane	Blank	<1.2	ug/l	
	Chloroethane	Blank	<0.8	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.4	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<0.7	ug/l	
	2-Chloroethylvinylether	Blank	<9.6	ug/l	
	Bromoform	Blank	<1.2	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<1.4	ug/l	
	2-Chlorotoluene	Blank	<0.6	ug/l	
	Hexachlorobutadiene	Blank	<1.3	ug/l	
	Isopropylbenzene	Blank	<0.6	ug/l	
	p-Isopropyltoluene	Blank	<0.7	ug/l	
	n-Propylbenzene	Blank	<0.8	ug/l	
	sec-Butylbenzene	Blank	<0.6	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: 12/18/01

Lims Bat #: LIMS-60373

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QC Batch Number: GCMS/VOL-6877

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-38601	tert-Butylbenzene	Blank	<0.8	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.7	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.1	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.6	ug/l	
	1,1-Dichloropropene	Blank	<1.4	ug/l	
	1,2-Dichloropropane	Blank	<0.6	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.9	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<1.3	ug/l	
	n-Butylbenzene	Blank	<0.7	ug/l	
	Dichlorodifluoromethane	Blank	<1.0	ug/l	
	Bromochloromethane	Blank	<0.7	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Iodomethane	Blank	<0.8	ug/l	
	Acrolein	Blank	<20.0	ug/l	
	Acrylonitrile	Blank	<7.6	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	Vinyl Acetate	Blank	<16.4	ug/l	
	2-Hexanone	Blank	<9.7	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.1	ug/l	
	Ethyl Methacrylate	Blank	<0.8	ug/l	
	cis-1,4-Dichloro-2-Butene	Blank	<2.4	ug/l	
	Bromodichloromethane	Blank	<0.4	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<1.6	ug/l	
	1,2-Dibromoethane	Blank	<0.7	ug/l	
LFBLANK-18615	Benzene	Lab Fort Blank Amt.	40.0	ug/l	
		Lab Fort Blk. Found	44.5	ug/l	
		Lab Fort Blk. % Rec.	111.2	%	
	Toluene	Lab Fort Blank Amt.	40.0	ug/l	
		Lab Fort Blk. Found	40.5	ug/l	
		Lab Fort Blk. % Rec.	101.2	%	
	Trichloroethylene	Lab Fort Blank Amt.	40.0	ug/l	
		Lab Fort Blk. Found	38.0	ug/l	
		Lab Fort Blk. % Rec.	95.0	%	
	1,1-Dichloroethylene	Lab Fort Blank Amt.	40.0	ug/l	
		Lab Fort Blk. Found	41.4	ug/l	
		Lab Fort Blk. % Rec.	103.5	%	

