



1970 Pawtucket Avenue, 2nd Floor
East Providence, Rhode Island 02914
www.atc-enviro.com
401.431.2882
Fax 401.431.1236

September 3, 2002

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

**Re: Quarterly Monitoring Results
Springfield Street Schools
Springfield Street
Providence, Rhode Island**

RECEIVED
D.E.M./O.W.M.
2002 SEP -5 A 11:51

Mr. Crawford:

Enclosed please find a copy of the above-mentioned report. I have also enclosed a site plan depicting the sample locations. If you require additional information, please don't hesitate to contact me (401) 431-2882.

Sincerely,
ATC Associates Inc.

A handwritten signature in cursive script that reads 'Bonnie Blair'.

Bonnie Blair
Field Geologist

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

Tod Kopyscinski
Director of Operations

SIGNATURE

DATE

Edward Denson
Technical Director



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

CHAIN OF CUSTODY RECORD

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

Client Name: ATC
 Attn: Tom Pierson
 Address: 1970 Parkbank Ave
E. Providence RI 02914
 Site Location: Springfield St
 Sampled By: T. Pierson

Call Results: Yes No
 Fax Results: Yes No

Telephone: 401-431-2882
 Batch #: _____
 Project #: 8317646.0007
 Client P.O. #: _____
 Fax #: 401-431-2836

401-431-2882 LIMS
 Analysis Required 66373

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		
MW-1	TELEAC BAG	01B35140	12-6	12-6		X					X		
WB-3	TELEAC BAG	35141	12-6	12-6		X					X		
MW-1	VDA	01B35142	12-6	12-6		X	X2				H	V	
MW-2		35143	12-6	12-6		X	X2				H	V	
MW-3		35144	12-6	12-6		X	X2				H	V	
MW-4		35145	12-6	12-6		X	X2				H	V	
MW-5		35146	12-6	12-6		X	X2				H	V	

09-08
 11-01

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

RECEIVED BY: (Signature) [Signature] Date Time 12-10-01 12:00
 RECEIVED BY: (Signature) [Signature] Date Time 12-10-01 12:20 PM
 RECEIVED BY: (Signature) [Signature] Date Time 12-10-01 12:00

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

REMARKS/COMMENTS: _____

MATRIX OTHER: _____

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



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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 1 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	
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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 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 Lo Hi	P/ F
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		
1,1,1,2,2-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

12/18/01
 Page 3 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 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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Contact Reference : JIM PIERSON
 Field Office: CR

12/18/01
 Page 4 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-2

Purchase Order No.:

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

Sample ID : 01B35143

Sampled : 12/6/01
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
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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JIM PIERSON
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : JIM PIERSON
 Field Office: CR

12/18/01
 Page 5 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample #: MW-2

Purchase Order No.:

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

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			

RL = Reporting Limit
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 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 ° 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

Contact Reference : JIM PIERSON
Field Office: CR

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Purchase Order No.:

Project Location: SPRINGFIELD ST
Date Received: 12/10/01
Field Sample # : MW-2

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

Sample ID : 01B35143

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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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

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Purchase Order No.:

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-3

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

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

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-3

Purchase Order No.:

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

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

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-3

Purchase Order No.:

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

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

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-4

Purchase Order No.:

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

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

Contact Reference : JIM PIERSON
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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-4

Purchase Order No.:

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

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			
1,1,1,2,2-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

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample #: MW-4

Purchase Order No.:

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

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

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

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-5

Purchase Order No.:

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

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

Contact Reference : JIM PIERSON
 Field Office: CR

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Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample #: MW-5

Purchase Order No.:

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

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

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12/18/01
 Page 15 of 16

Project Location: SPRINGFIELD ST
 Date Received: 12/10/01
 Field Sample # : MW-5

Purchase Order No.:

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

Sample ID : 01B35146 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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LIMS-BAT #: LIMS-60373

Job Number: 83 17646.0007

** END OF REPORT **

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QC SUMMARY REPORT

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

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

Report Date:	12/18/01	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						



QC SUMMARY REPORT

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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	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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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	%	



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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
LFBLANK-18615	Chlorobenzene	Lab Fort Blank Amt.	40.0	ug/l	
		Lab Fort Blk. Found	40.3	ug/l	
		Lab Fort Blk. % Rec.	100.8	%	



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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

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