

January 7, 2005

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D.E.M. / O.W.M. 081-12152-01

2005 JAN 12 7 13 16

Mr. Jeffrey P. Crawford
Principal Environmental Scientist
Office of Waste Management
RIDEM
235 Promenade Street
Providence, RI 02908

Subject: Results of Subslab Extraction System Air Sample Analysis,
Springfield Street School Complex, Case 99-018

Dear Mr. Crawford:

Air samples were collected from the subslab ventilation system at the elementary and middle schools on Springfield Street on December 13, 2004, in response to detection of elevated photoionization detector (PID) readings during the quarterly monitoring event. Air samples were collected directly from the sampling ports in the system in Tedlar bags. Samples identified as inlet samples were collected prior to the carbon adsorption vessels. Samples were delivered to Contest Analytical Laboratory under chain of custody for analysis by method TO-14.

Laboratory reports are attached, and results of analysis are summarized on the attached table. OSHA Permissible Exposure Limits are provided for comparison. The compounds and concentrations detected were relatively low, and were similar to past soil gas sample analysis results (see Table 6 and 7 reprinted from last monitoring report).

LFR will perform PID monitoring of the system to determine if the condition has persisted, and will evaluate humidity conditions to determine if that may have affected the PID readings. Please contact me if you have any questions.

Sincerely,



Donna H. Pallister, P.E.
Senior Engineer

CC: A. Sepe, City of Providence
S. Tremblay, Providence School Department

Results of Analysis of Air from Subslab Ventilation Systems
Springfield Street School Complex
Providence, Rhode Island
Samples Collected December 13, 2005

Compound	Results in Parts per Billion by Volume (ppbv)						OSHA PEL's
	Elementary School Blower 1 (inlet)	Elementary School Blower 2 (inlet)	Elementary School Outlet (after carbon)	Middle School Back (inlet)	Middle School Back Outlet (after carbon)	Middle School Front (inlet)	
Dichlorodifluoromethane	<0.5	<0.5	1.5	<0.5	8.2	1.0	1,000,000
Methylene Chloride	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	25,000
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	100,000
Toluene	0.8	<0.5	1.3	0.7	1.3	0.7	200,000
Trichloroethylene	<0.5	<0.5	9.0	<0.5	<0.5	1.0	100,000
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	0.6	1.1	1.9	*
PID reading (ppm as isobutylene)	43.4	17.6	4475	1453	1342	699	

< - indicates compound not detected above indicated detection limit

* OSHA has not established a PEL for 1,2,4-Trimethylbenzene; NIOSH recommends an exposure limit of 25,000 ppbv.

Table 6
Summary of Soil Gas Laboratory Results for WB-3/WB-2
Springfield Street School Complex
Providence, Rhode Island

Compounds Detected	Results of Analysis in PPBv by Sample Date									
	9/25/2002	1/2/2003	3/19/2003	7/15/2003	11/11/2003	1/22/2004	5/4/2004	8/18/2004	11/30/2004	
1,2,4-Trimethylbenzene	1.8	ND	ND	ND	ND	ND	1.4	ND	5	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	2.2	ND	ND	
1,3-dichlorobenzene	1.2	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	ND	ND	ND	ND	0.9	ND	ND	ND	ND	
Dichlorofluoromethane	ND	0.7	ND	ND	0.9	ND	ND	ND	ND	
Ethyl benzene	ND	ND	ND	0.5	1.6	ND	0.8	ND	ND	
Methylene Chloride	ND	2.7	ND	2.0	4.0	1.2	0.8	ND	0.6	
M/p-Xylene	0.6	ND	0.6	1.1	1.7	ND	2.5	ND	5.9	
O -Xylene	ND	ND	ND	ND	0.6	ND	ND	ND	4.8	
Tetrachloroethylene	0.6	ND	1.7	ND	0.7	ND	1.5	ND	ND	
Toluene	3.0	5.9	2.0	3.4	3.3	1.2	2.4	5.9	3.4	
Trichloroethylene	ND	ND	ND	ND	0.9	ND	ND	ND	15.7	
Trichlorofluoromethane (Freon 11)	1.0	ND	ND	2.1	ND	ND	ND	ND	0.6	
Total VOCs Detected	8.2	9.3	4.3	9.1	14.6	2.4	11.6	5.9	36.0	

5/4/2004, 8/18/2004 & 11/30/2004 - sampled WB-2, previous results are for samples from WB-3
 ND - Not Detected

Samples were collected in Tedlar bags and analyzed by method TO-14

Table 7
Summary of Soil Gas Laboratory Results for MPL-6
Springfield Street School Complex
Providence, Rhode Island

Compounds Detected	Results of Analysis in PPBv by Sample Date							
	3/19/2003	7/15/2003	11/11/2003	1/22/2004	5/4/2004	8/18/2004	11/30/2004	
1,2,4-Trimethylbenzene	ND	ND	2.2	ND	ND	ND	3.4	
1,3,5-Trimethylbenzene	ND	ND	1.3	ND	ND	ND	1.4	
Ethylbenzene	ND	ND	1.6	ND	ND	ND	ND	
M/p-Xylene	0.7	ND	15.8	ND	ND	ND	3.9	
O -Xylene	ND	ND	3.3	ND	ND	ND	2.9	
Tetrachloroethylene	2.7	ND	ND	ND	ND	ND	ND	
Toluene	2.8	ND	ND	1.2	ND	ND	ND	
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane (Freon 11)	ND	ND	ND	ND	ND	ND	ND	
Total VOCs Detected	6.2	0	24.2	1.2	0	0	11.6	

ND - Not Detected
 Samples were collected in Tedlar bags and analyzed by method TO-14



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REPORT DATE 12/22/2004

LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-84702
JOB NUMBER: 081-12152-01

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

PROJECT LOCATION: SPRINGFIELD STREET, PROVIDENCE

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
*E.S. BLOWER 1	04B43634	AIR	NOT SPECIFIED	to-14 ppbv
*E.S. BLOWER 1	04B43634	AIR	NOT SPECIFIED	to-14 ug/m3
*E.S. BLOWER 2	04B43635	AIR	NOT SPECIFIED	to-14 ppbv
*E.S. BLOWER 2	04B43635	AIR	NOT SPECIFIED	to-14 ug/m3
E.S. OUTLET	04B43636	AIR	NOT SPECIFIED	to-14 ppbv
E.S. OUTLET	04B43636	AIR	NOT SPECIFIED	to-14 ug/m3
M.S. BACK INLET	04B43632	AIR	NOT SPECIFIED	to-14 ppbv
M.S. BACK INLET	04B43632	AIR	NOT SPECIFIED	to-14 ug/m3
M.S. BACK OUTLET	04B43631	AIR	NOT SPECIFIED	to-14 ppbv
M.S. BACK OUTLET	04B43631	AIR	NOT SPECIFIED	to-14 ug/m3
M.S. FRONT INLET	04B43633	AIR	NOT SPECIFIED	to-14 ppbv
M.S. FRONT INLET	04B43633	AIR	NOT SPECIFIED	to-14 ug/m3

Comments :

LIMS BATCH NO. : LIMS-84702

SAMPLES WERE TAKEN IN TEDLAR BAGS

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 12/22/04

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



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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE

LIMS-BAT #: LIMS-84702

Date Received: 12/14/2004

Job Number: 081-12152-01

Field Sample #: E.S. BLOWER 1

Sample ID : *04B43634

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	PPBv	ND	12/16/04	SMS	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/16/04	SMS	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/16/04	SMS	0.5		
1,2,4-Trimethylbenzene	PPBv	ND	12/16/04	SMS	0.5		
1,3,5-Trimethylbenzene	PPBv	ND	12/16/04	SMS	0.5		
Vinyl Chloride	PPBv	ND	12/16/04	SMS	0.5		
m/p-Xylene	PPBv	ND	12/16/04	SMS	0.5		
o-Xylene	PPBv	ND	12/16/04	SMS	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

NM = Not Measured

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

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



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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample # : E.S. BLOWER 2

Sample ID : *04B43635 Sampled : 12/13/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	12/16/04	SMS	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/16/04	SMS	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/16/04	SMS	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	12/16/04	SMS	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	12/16/04	SMS	0.5			
Vinyl Chloride	PPBv	ND	12/16/04	SMS	0.5			
m/p-Xylene	PPBv	ND	12/16/04	SMS	0.5			
o-Xylene	PPBv	ND	12/16/04	SMS	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.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample #: E.S. OUTLET

Sample ID : 04B43636

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	12/15/04	SMS	0.5			
Bromomethane	PPBv	ND	12/15/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	12/15/04	SMS	0.5			
Chlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Chloroethane	PPBv	ND	12/15/04	SMS	0.5			
Chloroform	PPBv	ND	12/15/04	SMS	0.5			
Chloromethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	1.5	12/15/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	12/15/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	12/15/04	SMS	0.5			
Ethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	12/15/04	SMS	0.5			
Methylene Chloride	PPBv	0.6	12/15/04	SMS	0.5			
Styrene	PPBv	ND	12/15/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	12/15/04	SMS	0.5			
Tetrachloroethylene	PPBv	ND	12/15/04	SMS	0.5			
Toluene	PPBv	1.3	12/15/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			

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Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004
Field Sample # : E.S. OUTLET

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Sample ID : 04B43636 Sampled : 12/13/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	9.0	12/15/04	SMS	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Vinyl Chloride	PPBv	ND	12/15/04	SMS	0.5			
m/p-Xylene	PPBv	ND	12/15/04	SMS	0.5			
o-Xylene	PPBv	ND	12/15/04	SMS	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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Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004
Field Sample #: M.S. BACK INLET

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Sample ID : 04B43632 Sampled : 12/13/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	12/15/04	SMS	0.5			
Bromomethane	PPBv	ND	12/15/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	12/15/04	SMS	0.5			
Chlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Chloroethane	PPBv	ND	12/15/04	SMS	0.5			
Chloroform	PPBv	ND	12/15/04	SMS	0.5			
Chloromethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	ND	12/15/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	12/15/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	12/15/04	SMS	0.5			
Ethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	12/15/04	SMS	0.5			
Methylene Chloride	PPBv	ND	12/15/04	SMS	0.5			
Styrene	PPBv	ND	12/15/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	12/15/04	SMS	0.5			
Tetrachloroethylene	PPBv	ND	12/15/04	SMS	0.5			
Toluene	PPBv	0.7	12/15/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			

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



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Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: M.S. BACK INLET

Sample ID : 04B43632

Sampled : 12/13/2004
 NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	PPBv	ND	12/15/04	SMS	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/15/04	SMS	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/15/04	SMS	0.5		
1,2,4-Trimethylbenzene	PPBv	0.6	12/15/04	SMS	0.5		
1,3,5-Trimethylbenzene	PPBv	ND	12/15/04	SMS	0.5		
Vinyl Chloride	PPBv	ND	12/15/04	SMS	0.5		
m/p-Xylene	PPBv	ND	12/15/04	SMS	0.5		
o-Xylene	PPBv	ND	12/15/04	SMS	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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WARWICK, RI 02886

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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample #: M.S. BACK OUTLET

Sample ID: 04B43631 Sampled: 12/13/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	12/15/04	SMS	0.5			
Bromomethane	PPBv	ND	12/15/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	12/15/04	SMS	0.5			
Chlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Chloroethane	PPBv	ND	12/15/04	SMS	0.5			
Chloroform	PPBv	ND	12/15/04	SMS	0.5			
Chloromethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	8.2	12/15/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	12/15/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	12/15/04	SMS	0.5			
Ethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	12/15/04	SMS	0.5			
Methylene Chloride	PPBv	ND	12/15/04	SMS	0.5			
Styrene	PPBv	ND	12/15/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	12/15/04	SMS	0.5			
Tetrachloroethylene	PPBv	0.6	12/15/04	SMS	0.5			
Toluene	PPBv	1.3	12/15/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			

RL = Reporting Limit
ND = Not Detected
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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.

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



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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample # : M.S. BACK OUTLET

Sample ID : 04B43631

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2,4-Trimethylbenzene	PPBv	1.1	12/15/04	SMS	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Vinyl Chloride	PPBv	ND	12/15/04	SMS	0.5			
m/p-Xylene	PPBv	ND	12/15/04	SMS	0.5			
o-Xylene	PPBv	ND	12/15/04	SMS	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

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.



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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: M.S. FRONT INLET

Sample ID : 04B43633

Sampled : 12/13/2004
 NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	12/15/04	SMS	0.5			
Bromomethane	PPBv	ND	12/15/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	12/15/04	SMS	0.5			
Chlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Chloroethane	PPBv	ND	12/15/04	SMS	0.5			
Chloroform	PPBv	ND	12/15/04	SMS	0.5			
Chloromethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	1.0	12/15/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	12/15/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	12/15/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	12/15/04	SMS	0.5			
Ethylbenzene	PPBv	ND	12/15/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	12/15/04	SMS	0.5			
Methylene Chloride	PPBv	ND	12/15/04	SMS	0.5			
Styrene	PPBv	ND	12/15/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	12/15/04	SMS	0.5			
Tetrachloroethylene	PPBv	ND	12/15/04	SMS	0.5			
Toluene	PPBv	0.7	12/15/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	12/15/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	12/15/04	SMS	0.5			

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Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: E.S. BLOWER 2

Sample ID : 04B43635
 Sampled : 12/13/2004
 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	12/16/04	SMS	1.6		
Bromomethane	ug/m3	ND	12/16/04	SMS	1.9		
Carbon Tetrachloride	ug/m3	ND	12/16/04	SMS	3.1		
Chlorobenzene	ug/m3	ND	12/16/04	SMS	2.3		
Chloroethane	ug/m3	ND	12/16/04	SMS	1.3		
Chloroform	ug/m3	ND	12/16/04	SMS	2.4		
Chloromethane	ug/m3	ND	12/16/04	SMS	1.0		
1,2-Dibromoethane	ug/m3	ND	12/16/04	SMS	3.8		
1,2-Dichlorobenzene	ug/m3	ND	12/16/04	SMS	3.0		
1,3-Dichlorobenzene	ug/m3	ND	12/16/04	SMS	3.0		
1,4-Dichlorobenzene	ug/m3	ND	12/16/04	SMS	3.0		
Dichlorodifluoromethane	ug/m3	ND	12/16/04	SMS	2.5		
1,1-Dichloroethane	ug/m3	ND	12/16/04	SMS	2.0		
1,2-Dichloroethane	ug/m3	ND	12/16/04	SMS	2.0		
1,1-Dichloroethylene	ug/m3	ND	12/16/04	SMS	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	12/16/04	SMS	2.0		
1,2-Dichloropropane	ug/m3	ND	12/16/04	SMS	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	12/16/04	SMS	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	12/16/04	SMS	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	12/16/04	SMS	3.5		
Ethylbenzene	ug/m3	ND	12/16/04	SMS	2.2		
Hexachlorobutadiene	ug/m3	ND	12/16/04	SMS	5.3		
Methylene Chloride	ug/m3	ND	12/16/04	SMS	1.7		
Styrene	ug/m3	ND	12/16/04	SMS	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	12/16/04	SMS	3.4		
Tetrachloroethylene	ug/m3	ND	12/16/04	SMS	3.4		
Toluene	ug/m3	ND	12/16/04	SMS	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	12/16/04	SMS	3.7		
1,1,1-Trichloroethane	ug/m3	ND	12/16/04	SMS	2.7		
1,1,2-Trichloroethane	ug/m3	ND	12/16/04	SMS	2.7		

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Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: **E.S. BLOWER 2**

Sample ID : **04B43635**

Sampled : 12/13/2004
 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	12/16/04	SMS	2.7			
Trichlorofluoromethane	ug/m3	ND	12/16/04	SMS	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/16/04	SMS	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	12/16/04	SMS	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	12/16/04	SMS	2.5			
Vinyl Chloride	ug/m3	ND	12/16/04	SMS	1.3			
m/p-Xylene	ug/m3	ND	12/16/04	SMS	2.2			
o-Xylene	ug/m3	ND	12/16/04	SMS	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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Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: E.S. OUTLET

Sample ID : 04B43636

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	48.5	12/15/04	SMS	2.7		
Trichlorofluoromethane	ug/m3	ND	12/15/04	SMS	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/15/04	SMS	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	12/15/04	SMS	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	12/15/04	SMS	2.5		
Vinyl Chloride	ug/m3	ND	12/15/04	SMS	1.3		
m/p-Xylene	ug/m3	ND	12/15/04	SMS	2.2		
o-Xylene	ug/m3	ND	12/15/04	SMS	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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Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample #: M.S. BACK INLET

Sample ID : 04B43632

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	ND	12/15/04	SMS	2.7		
Trichlorofluoromethane	ug/m3	ND	12/15/04	SMS	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/15/04	SMS	3.8		
1,2,4-Trimethylbenzene	ug/m3	2.8	12/15/04	SMS	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	12/15/04	SMS	2.5		
Vinyl Chloride	ug/m3	ND	12/15/04	SMS	1.3		
m/p-Xylene	ug/m3	ND	12/15/04	SMS	2.2		
o-Xylene	ug/m3	ND	12/15/04	SMS	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.: 5131

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Project Location: SPRINGFIELD STREET, PROVIDENCE
 Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
 Job Number: 081-12152-01

Field Sample #: **M.S. BACK OUTLET**

Sample ID: **04B43631** Sampled: 12/13/2004
 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	12/15/04	SMS	1.6			
Bromomethane	ug/m3	ND	12/15/04	SMS	1.9			
Carbon Tetrachloride	ug/m3	ND	12/15/04	SMS	3.1			
Chlorobenzene	ug/m3	ND	12/15/04	SMS	2.3			
Chloroethane	ug/m3	ND	12/15/04	SMS	1.3			
Chloroform	ug/m3	ND	12/15/04	SMS	2.4			
Chloromethane	ug/m3	ND	12/15/04	SMS	1.0			
1,2-Dibromoethane	ug/m3	ND	12/15/04	SMS	3.8			
1,2-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0			
1,3-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0			
1,4-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0			
Dichlorodifluoromethane	ug/m3	40.4	12/15/04	SMS	2.5			
1,1-Dichloroethane	ug/m3	ND	12/15/04	SMS	2.0			
1,2-Dichloroethane	ug/m3	ND	12/15/04	SMS	2.0			
1,1-Dichloroethylene	ug/m3	ND	12/15/04	SMS	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	12/15/04	SMS	2.0			
1,2-Dichloropropane	ug/m3	ND	12/15/04	SMS	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	12/15/04	SMS	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	12/15/04	SMS	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	12/15/04	SMS	3.5			
Ethylbenzene	ug/m3	ND	12/15/04	SMS	2.2			
Hexachlorobutadiene	ug/m3	ND	12/15/04	SMS	5.3			
Methylene Chloride	ug/m3	ND	12/15/04	SMS	1.7			
Styrene	ug/m3	ND	12/15/04	SMS	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	12/15/04	SMS	3.4			
Tetrachloroethylene	ug/m3	4.3	12/15/04	SMS	3.4			
Toluene	ug/m3	4.7	12/15/04	SMS	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	12/15/04	SMS	3.7			
1,1,1-Trichloroethane	ug/m3	ND	12/15/04	SMS	2.7			
1,1,2-Trichloroethane	ug/m3	ND	12/15/04	SMS	2.7			

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample #: M.S. BACK OUTLET

Sample ID: 04B43631
Sampled: 12/13/2004
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	ND	12/15/04	SMS	2.7		
Trichlorofluoromethane	ug/m3	ND	12/15/04	SMS	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/15/04	SMS	3.8		
1,2,4-Trimethylbenzene	ug/m3	5.4	12/15/04	SMS	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	12/15/04	SMS	2.5		
Vinyl Chloride	ug/m3	ND	12/15/04	SMS	1.3		
m/p-Xylene	ug/m3	ND	12/15/04	SMS	2.2		
o-Xylene	ug/m3	ND	12/15/04	SMS	2.2		

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

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Field Sample #: M.S. FRONT INLET

Sample ID : 04B43633 Sampled : 12/13/2004
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	12/15/04	SMS	1.6		
Bromomethane	ug/m3	ND	12/15/04	SMS	1.9		
Carbon Tetrachloride	ug/m3	ND	12/15/04	SMS	3.1		
Chlorobenzene	ug/m3	ND	12/15/04	SMS	2.3		
Chloroethane	ug/m3	ND	12/15/04	SMS	1.3		
Chloroform	ug/m3	ND	12/15/04	SMS	2.4		
Chloromethane	ug/m3	ND	12/15/04	SMS	1.0		
1,2-Dibromoethane	ug/m3	ND	12/15/04	SMS	3.8		
1,2-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0		
1,3-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0		
1,4-Dichlorobenzene	ug/m3	ND	12/15/04	SMS	3.0		
Dichlorodifluoromethane	ug/m3	4.7	12/15/04	SMS	2.5		
1,1-Dichloroethane	ug/m3	ND	12/15/04	SMS	2.0		
1,2-Dichloroethane	ug/m3	ND	12/15/04	SMS	2.0		
1,1-Dichloroethylene	ug/m3	ND	12/15/04	SMS	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	12/15/04	SMS	2.0		
1,2-Dichloropropane	ug/m3	ND	12/15/04	SMS	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	12/15/04	SMS	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	12/15/04	SMS	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	12/15/04	SMS	3.5		
Ethylbenzene	ug/m3	ND	12/15/04	SMS	2.2		
Hexachlorobutadiene	ug/m3	ND	12/15/04	SMS	5.3		
Methylene Chloride	ug/m3	ND	12/15/04	SMS	1.7		
Styrene	ug/m3	ND	12/15/04	SMS	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	12/15/04	SMS	3.4		
Tetrachloroethylene	ug/m3	ND	12/15/04	SMS	3.4		
Toluene	ug/m3	2.8	12/15/04	SMS	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	12/15/04	SMS	3.7		
1,1,1-Trichloroethane	ug/m3	ND	12/15/04	SMS	2.7		
1,1,2-Trichloroethane	ug/m3	ND	12/15/04	SMS	2.7		

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

DONNA PALLISTER
 LEVINE FRICKE
 250 CENTERVILLE RD., BLDG. E, SUITE 12
 WARWICK, RI 02886

Purchase Order No.: 5131

12/22/2004
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Project Location: SPRINGFIELD STREET, PROVIDENCE

LIMS-BAT #: LIMS-84702

Date Received: 12/14/2004

Job Number: 081-12152-01

Field Sample #: M.S. FRONT INLET

Sample ID : 04B43633

Sampled : 12/13/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	5.6	12/15/04	SMS	2.7			
Trichlorofluoromethane	ug/m3	ND	12/15/04	SMS	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/15/04	SMS	3.8			
1,2,4-Trimethylbenzene	ug/m3	9.3	12/15/04	SMS	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	12/15/04	SMS	2.5			
Vinyl Chloride	ug/m3	ND	12/15/04	SMS	1.3			
m/p-Xylene	ug/m3	ND	12/15/04	SMS	2.2			
o-Xylene	ug/m3	ND	12/15/04	SMS	2.2			

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

NM = Not Measured

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

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



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DONNA PALLISTER
LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886

Purchase Order No.: 5131

12/22/2004
Page 25 of 25

Project Location: SPRINGFIELD STREET, PROVIDENCE
Date Received: 12/14/2004
The following notes were attached to the reported analysis :

LIMS-BAT #: LIMS-84702
Job Number: 081-12152-01

Sample ID: * 04B43634
Analysis: to-14 ppbv

48 HOUR TEDLAR BAG HOLDING TIME EXCEEDED BEFORE ANALYSIS WAS COMPLETED.

Sample ID: * 04B43635
Analysis: to-14 ppbv

48 HOUR TEDLAR BAG HOLDING TIME EXCEEDED BEFORE ANALYSIS WAS COMPLETED.

** END OF REPORT **

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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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: 12/22/2004

Lims Bat # : LIMS-84702

Page 1 of 3

QC Batch Number: BATCH-7803

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B43631	4-Bromofluorobenzene	Surrogate Recovery	86.0	%	70-130
04B43632	4-Bromofluorobenzene	Surrogate Recovery	84.9	%	70-130
04B43633	4-Bromofluorobenzene	Surrogate Recovery	88.6	%	70-130
04B43634	4-Bromofluorobenzene	Surrogate Recovery	75.2	%	70-130
04B43635	4-Bromofluorobenzene	Surrogate Recovery	79.5	%	70-130
04B43636	4-Bromofluorobenzene	Surrogate Recovery	88.9	%	70-130
BLANK-68204	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	



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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: 12/22/2004

Lims Bat # : LIMS-84702

Page 2 of 3

QC Batch Number: BATCH-7803

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-68204	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Method Blanks

Report Date: 12/22/2004

Lims Bat #: LIMS-84702

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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

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



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD
 Lims# 84702

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

Company Name: LFIR
 Address: 250 Centerville Rd
Warwick RI 02886
 Attention: Donna Ralister

Telephone: (401) 738-3887
 Project # 081-12152-01
 Client PO # _____

Project Location: Springfield St. Trv.
 Sampled By: Donna Ralister

Proposal Provided? (For Billing purposes) Yes No
 State Form Required? Yes No

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: donna.ralister@fr.com
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	*Matrix Code	ANALYSIS REQUESTED	# of containers
			Start Date/Time	Stop Date/Time					
1	M.S. Back Outlet	43631	12/13 12:35				A	✓	
1	M.S. Back Inlet	43632	12/13 1:24				A	✓	
1	M.S. Front Inlet	43633	12/13 1:12				A	✓	
1	E.S. Blower 1 Inlet	43634	12/13 1:53				A	✓	
1	E.S. Blower 2 Inlet	43635	12/13 1:47				A	✓	
1	E.S. Outlet	43636	12/13 2:00				A	✓	

To-14

Relinquished by: (signature) _____ Date/Time: 12/14 9:30
 Received by: (signature) _____ Date/Time: 9:30
 Relinquished by: (signature) _____ Date/Time: 9:44
 Received by: (signature) _____ Date/Time: 15:30
 Received by: (signature) _____ Date/Time: 4:30

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

Detection Limit Requirements
 Regulations? _____
 Data Enhancement Project? Y N
 (MA MCP sites only)
 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 = lead
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

X = Na hydroxide
 T = Na thiosulfate

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