



Weston & Sampson Engineers, Inc.
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Innovative Solutions since 1899

LETTER OF TRANSMITTAL

TO:

Mr. David Panagore, Director
Planning & Economic Development
70 Tapley Street
Springfield MA 01104

DATE	JOB NO.
July 15, 2008	2070222.B
ATTENTION:	
RE:	Former Chapman Valve facility
	RAM Status Report #2

WE ARE SENDING YOU:

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Attached | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Change Order | <input checked="" type="checkbox"/> Prints | <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Under separate cover via: | | |

COPIES	DATE	NO.	DESCRIPTION
1	July 2008		Construction Release Abatement Measure Status Report #2, Former Chapman Valve Manufacturing Facility, 225 Goodwin Street, Springfield MA. RTN 1-00616

THESE ARE TRANSMITTED AS CHECKED BELOW:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit copies for distribution |
| <input type="checkbox"/> For review and comment | <input checked="" type="checkbox"/> As requested | <input type="checkbox"/> Return corrected prints |
| <input type="checkbox"/> FOR BIDS DUE | <input type="checkbox"/> Prints returned after loan to us | <input type="checkbox"/> Returned for corrections |
| <input type="checkbox"/> Other | | |

REMARKS:

COPY TO: C. Shaw-DEP-WERO; Weston & Sampson files	SIGNED: George Naslas

If enclosures are not as noted, kindly notify us at once.

**CITY OF
SPRINGFIELD**

CONSTRUCTION
RELEASE ABATEMENT
MEASURE (RAM)
STATUS REPORT #2

FORMER CHAPMAN
VALVE
MANUFACTURING
FACILITY,
225 GOODWIN
STREET

SPRINGFIELD,
MASSACHUSETTS

RTN 1-00616

JULY 2008



planning, permitting,
design, construction,
operation, maintenance,
design/build, & equipment

Weston&Sampson®

**Springfield Chapman Valve
Weston & Sampson Project No. 2070222.B**

July 15, 2008

Ms. Caprice Shaw
Bureau of Waste Site Cleanup
Department of Environmental Protection
Western Regional Office
46 Dwight Street, 4th floor
Springfield, Massachusetts 01103-1317

Re: Second Construction RAM Status Report
Former Chapman Valve Manufacturing Facility
Springfield, Massachusetts
RTN 1-0616

Dear Ms. Shaw:

Weston & Sampson, on behalf of the City of Springfield, has prepared the second Construction Release Abatement Measure (RAM) Status Report for the Former Chapman Valve Manufacturing Facility Building Demolition project located at 225 Goodwin Street in Springfield, Massachusetts (the Site). The purpose of this Construction RAM Status Report is to document response actions that have been taken since the submittal of the first Construction RAM Status Report on January 15, 2008. The City of Springfield acquired the Site through non-payment of taxes and, as a result, is undertaking voluntary response actions. In accordance with those response actions and a letter dated November 8, 2007, the City is not considered a Potentially Responsible Party with liability for response action cost and damages under M.G.L. c. 21e. Since the City is electing to conduct response actions voluntarily, the City is not obliged to meet any deadline requirements specified under the Massachusetts Contingency Plan (MCP).

BACKGROUND

The Site is located in an industrial/residential section of Springfield, Massachusetts. A site locus map is included in Figure 1. The Goodwin Street property is a former steel foundry site consisting of an 11.9-acre parcel and a 141,000-square foot, generally rectangular, industrial building. A release had occurred from a group of six underground storage tanks (USTs), which were located near the northwest corner of the Site building. The oil release at the Site is listed by the Massachusetts Department of Environmental Protection (DEP) under the name American Dream Modular Homes, release tracking number (RTN) 1-0616, and is listed as a confirmed Tier II disposal site. The release of petroleum from the subject USTs was first reported to DEP in January 2001.

A Phase I Report and Tier Classification for the No. 6 fuel oil storage tank release on 225 Goodwin Street was prepared by O'Reilly, Talbot, & Okun Associates, Inc. (OTO) in March 2002. The disposal site score was 133, supporting a Tier II Classification. OTO also conducted several investigations and subsurface explorations between 2000 and 2003 in order to characterize the possible presence, nature, and extent of oil and hazardous material (OHM) in soil and groundwater. The investigations included soil borings and monitoring well installation, field screening of soil samples, and laboratory analysis of soil samples and groundwater samples. A Phase II Comprehensive Site Assessment Report/Phase III Remedial Action Plan for the oil release was prepared by OTO in June 2003.

The MCP requirements for the RAM Status Report (310 CMR 40.0445) are shown below in *italic* text and the RAM activities are shown in normal text. The original signed and stamped BWSC-106 form is attached with a copy included in Appendix A.

(a) The status of response actions;

To date, MCP response actions at the site have been related to the removal of 6 15,000-gallon USTs and the management of associated contaminated soil. In each case minimal groundwater was observed at the base of the excavation and as such groundwater dewatering was not required.

UST#3 and UST#4

On January 29 & 30 2008, Weston & Sampson documented the removal and excavation of two 15,000-gallon No. 6 fuel oil USTs (UST#3 and UST#4) by the contractor, Associated Building Wreckers (ABW). See Figure 2 for the approximate area where excavation activities and UST removal activities were conducted. Caprice G. Shaw from DEP was on Site on January 30, 2008, to observe excavation and UST removal activities conducted by ABW.

During excavation and UST removal, soil was observed for visual and olfactory evidence of petroleum contamination and screened for total volatile organic compounds (TVOCs) with a photoionization detector (PID) using the DEP-recommended jar headspace analytical screening procedure every 20 cubic yards (cy). PID readings ranged from <0.1 parts per million (ppm) to 8 ppm. Please see Table 1 for PID screening results. Black petroleum stained soils and a moderate petroleum odor were detected in soils from approximately 6 feet below ground surface (bgs). Weston & Sampson observed soil contamination along the east wall of the excavation. Oil appears to have leaked from the supply/return piping and raceway at this location. ABW excavated to an average depth of approximately 16 feet below grade and stockpiled approximately 60 cy of petroleum-contaminated soil on 6-mil poly sheeting.

Confirmatory soil samples were taken from the sidewalls and bottom of the excavation. The samples were submitted to a Massachusetts-certified laboratory for the analysis of extractable and volatile petroleum hydrocarbons (EPH/VPH) with target polycyclic aromatic hydrocarbons (PAHs) and target volatile organic compounds (VOCs).

Groundwater was encountered at approximately 15 feet below grade. Weston & Sampson observed some petroleum varying from a sheen to between 1/8- and 1/2-inch of oil on groundwater. Given that the petroleum is consistent with the original release and that response actions are underway, Weston & Sampson discussed with DEP if additional reporting was required. It was agreed that because a method for documentation was in place, no additional reporting was required.

UST #3 was observed to be in poor condition with areas of severe pitting and rusting. Three holes (0.5-1.5 inches diameter) were observed on UST #3. UST #4 was observed to be in fair condition with areas of significant pitting and rusting. A possible release from UST #3 was observed due to evidence of petroleum-stained soil observed on the south and west end wall and bottom of UST #3. The two 15,000-gallon USTs were transported off-Site by ABW and taken to Mass Tank Disposal, Chicopee, Massachusetts, an approved tank disposal yard, in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00.

UST #6

On February 4, 2008, Weston & Sampson returned to the Site to document the removal and excavation of one 15,000-gallon No. 6 fuel oil UST (UST #6) by ABW. See Figure 2 for the approximate area where excavation activities and UST removal activities were conducted.

During excavation and UST removal, soil was observed for visual and olfactory evidence of petroleum contamination and screened for TVOCs with a PID using the DEP-recommended jar headspace analytical screening procedure every 20 cy. PID readings ranged from <0.1 ppm to 3.8 ppm. Please see Table 1 for PID screening results. Weston & Sampson observed black petroleum stained soils at approximately 4 feet bgs and observed soil contamination along the east wall of the excavation. Oil appears to have leaked from the supply/return piping and raceway at this location. ABW excavated to an average depth of approximately 16 feet below grade and stockpiled approximately 30 cy of petroleum-contaminated soil on 6-mil poly sheeting.

Confirmatory soil samples were taken from the sidewalls and bottom of the excavation. The samples were submitted to a Massachusetts-certified laboratory for the analysis of EPH/VPH with target PAHs and target VOCs.

Groundwater was encountered at approximately 15 feet below grade. Weston & Sampson observed a sheen of oil on groundwater.

UST #6 was observed to be in fair condition with areas of moderate pitting and severe rusting. The 15,000-gallon UST was transported off-Site by ABW and taken to Mass Tank Disposal, Chicopee, Massachusetts, an approved tank disposal yard, in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00.

UST #5

On February 13, 2008, Weston & Sampson returned to the Site to document the removal and excavation of one 15,000-gallon No. 6 fuel oil UST (UST #5) by the ABW. See Figure 2 for

the approximate area where excavation activities and UST removal activities were conducted.

During excavation and UST removal, soil was observed for visual and olfactory evidence of petroleum contamination and screened for TVOCs with a PID using the DEP-recommended jar headspace analytical screening procedure every 20 cy. TVOCs were not detected. Please see Table 1 for PID screening results. Weston & Sampson observed soil contamination along the east wall of the excavation. Oil appears to have leaked from the supply/return piping and raceway at this location. ABW excavated to an average depth of approximately 16 feet below grade and stockpiled approximately 5 cy of petroleum-contaminated soil on 6-mil poly sheeting.

Confirmatory soil samples were taken from the sidewalls and bottom of the excavation. The samples were submitted to a Massachusetts-certified laboratory for the analysis of EPH/VPH with target PAHs and target VOCs.

Groundwater was encountered at approximately 15 feet below grade. Weston & Sampson did not observe petroleum impacts to the groundwater.

UST #5 was observed to be in fair condition with areas of moderate pitting and severe rusting. The 15,000-gallon UST was transported off-Site by ABW and taken to Mass Tank Disposal, Chicopee, Massachusetts, an approved tank disposal yard, in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00.

(b) Any significant new site information or data;

Sidewall and pit bottom soil samples from the grave of the six USTs were submitted to a Massachusetts-certified laboratory for the analysis of EPH/VPH with target PAHs and target VOCs as well as VOC analysis. The confirmatory soil analytical results from the excavation walls and bottom are presented in Table 2 and the laboratory data is provided in Appendix B. The analytical results indicate that all sidewall samples were below applicable Method 1 standards. The analytical results indicate that of the six pit bottom samples taken, three of the samples were below applicable Method 1 standards. Two of the samples exceeded the applicable Method 1 standard for C₉-C₁₈ aliphatics, C₁₁-C₂₂ aromatics, and C₉-C₁₀ aromatics, and 1 sample exceeded the applicable Method 1 standard for benzo(a)pyrene.

It must be noted that the pit bottom samples were all below 15 feet bgs.

(c) Details of and/or plans for the management of Remediation Waste, Remedial Wastewater and/or Remedial Additives;

Contaminated soils excavated from depths up to 16 feet bgs were stockpiled on 6-mil poly sheeting and covered with 6-mil poly sheeting for future off site disposal. All stockpiled petroleum contaminated soil was removed from the Site for disposal at a licensed disposal facility within 120 calendar days of the initial excavation under a Bill of Lading.

In accordance with the Construction RAM Plan, soils with PID readings of less than 10 ppm and with no visual or olfactory evidence of contamination, were used to backfill the UST grave.

No excess groundwater was required to be dewatered as part of the remedial activity.

- (d) Any other information that the Department during its review and evaluation of a Status Report determines to be necessary to complete said Status Report, in view of site specific circumstances and conditions;*

As requested by DEP, Weston & Sampson submitted a Tier II Extension for the site on January 15, 2008.

- (e) An LSP Opinion as to whether the Release Abatement Measure is being conducted in conformance with the Release Abatement Measure Plan and any conditions of approval established by the Department.*

The RAM activities are being conducted in accordance with the Construction RAM Plan. The Licensed Site Professional (LSP) Opinion is included in the attached RAM Transmittal form (BWSC-106).

If you have any questions or require additional information, please contact our office at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON



George D. Naslas, P.G., LSP
Associate

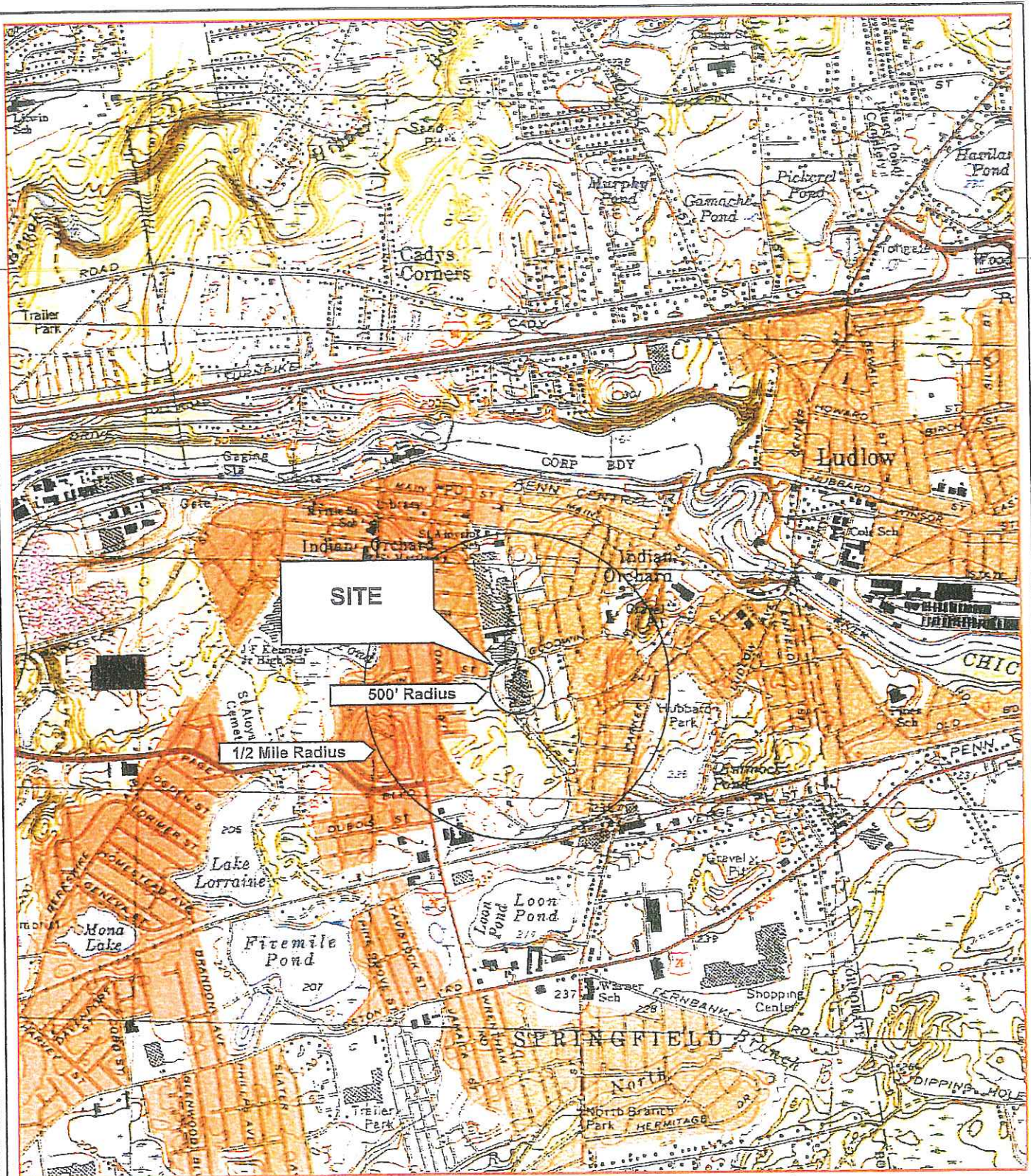
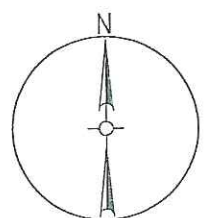


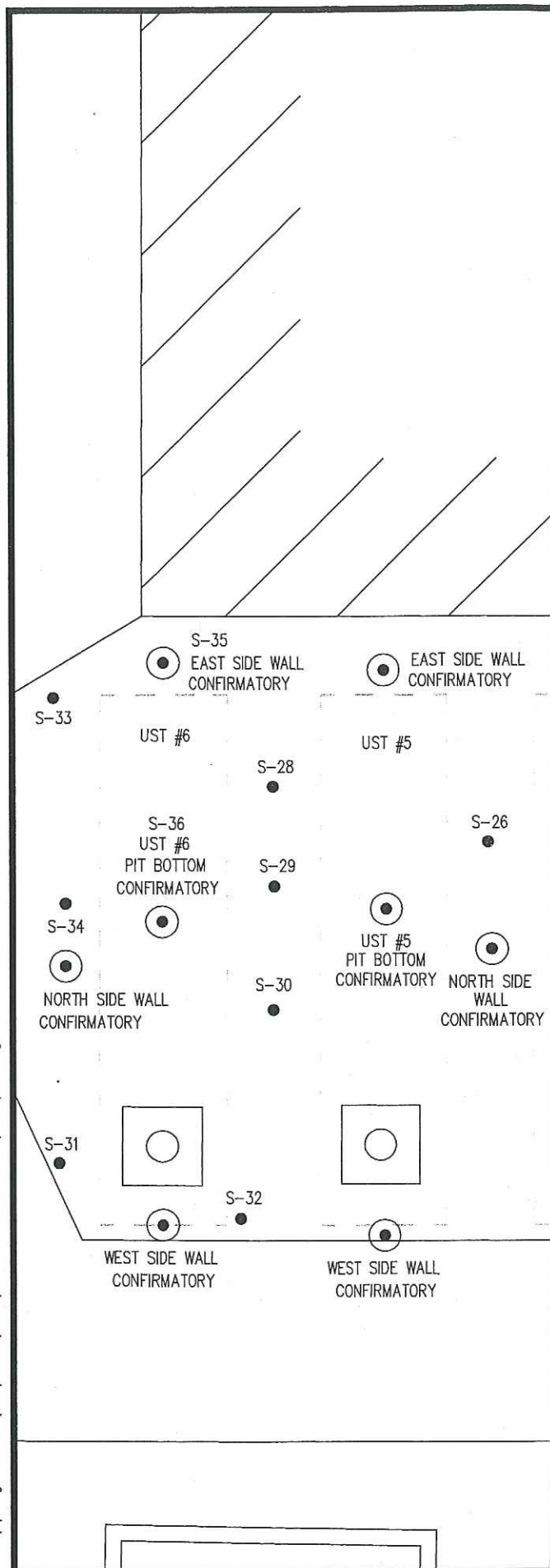
FIGURE 1
225 Goodwin Street
SPRINGFIELD, MASSACHUSETTS
LOCUS MAP

SOURCE: 1996 Earthvisions, Inc.
SCALE: 1 : 25,000

0 1/2 1 MILE



O:\Springfield MA\Chapman\CAD\Goodwin - Bid 396\UST pull.dwg



PID SAMPLE #	DEPTH (FEET BELOW GROUND SURFACE)	READING (PARTS PER MILLION BY VOLUME)
S-1	4	0.2
S-2	6	1.0
S-3	8	0.3
S-4	4	0.1
S-5	6	0.5
S-6	9	0.8
S-7	10	0.8
S-8	15	19
S-9	3.5	3.6
S-10	5	2.5
S-11	6	0.5
S-12	8	0.2
S-13	7	0.2
S-14	8	0.0
S-15	15	42
S-16	18	89
S-17	19	107
S-18	17	74
S-19	5	0.0
S-20	7	0.0
S-21	10	0.0
S-22	13	0.0
S-23	7	0.0
S-24	6	0.0
S-25	7	0.0
S-26	4	0.0
S-27	6	0.0
S-28	3	0.0
S-29	5	5.0
S-30	7	5.0
S-31	9	0.0
S-32	6	3.8
S-33	9	0.0
S-34	12.5	0.0
S-35	8	3.3
S-36	17	1.0

FIGURE 2

FORMER CHAPMAN VALVE MANUFACTURING FACILITY
SPRINGFIELD, MASSACHUSETTS

UNDERGROUND STORAGE TANK SITE PLAN
RTN 1-00616

DESIGNED BY: MAK

CHECKED BY: GDN

DATE:

MARCH 2008

Weston & Sampson®

Table 1
Former Chapman Valve Manufacturing Facility
Springfield, Massachusetts
Photoionization Detector (PID) Field Screening Results
January/February 2008

Date	Sample	Sample Depth (feet below ground surface)	PID Reading (parts per million by volume)
1/4/08	S-1	4	0.2
1/4/08	S-2	6	1.0
1/4/08	S-3	8	0.3
1/4/08	S-4	4	0.1
1/4/08	S-5	6	0.5
1/4/08	S-6	9	0.8
1/4/08	S-7	10	0.8
1/7/08	S-8	15	19
1/7/08	S-9	3.5	3.6
1/7/08	S-10	5	2.5
1/7/08	S-11	6	0.5
1/7/08	S-12	8	0.2
1/7/08	S-13	7	0.2
1/7/08	S-14	8	<0.1
1/7/08	S-15	15	42
1/7/08	S-16	18	89
1/7/08	S-17	19	107
1/8/08	S-18	17	74
1/29/08	S-19	5	<0.1
1/29/08	S-20	7	<0.1
1/29/08	S-21	10	<0.1
1/29/08	S-22	13	<0.1
1/29/08	S-23	7	<0.1
1/29/08	S-24	6	<0.1
1/30/08	S-25	7	<0.1
1/30/08	S-26	4	<0.1
1/30/08	S-27	6	<0.1
1/30/08	S-28	3	<0.1
1/30/08	S-29	5	5.0
1/30/08	S-30	7	5.0
2/4/08	S-31	9	<0.1
2/4/08	S-32	6	3.8
2/4/08	S-33	9	<0.1
2/4/08	S-34	12.5	<0.1
2/4/08	S-35	8	3.3
2/4/08	S-36	17	1.0

QC by LVR 2/29/08

Parameter	Units	MCP #						
		S-1/GW-2	S-1/GW-1	UST #6				
				DUP-1 Pit Bottom	West Side Wall 2/4/08	East Side Wall 2/4/08	North Side Wall 2/4/08	Pit Bottom 2/4/08
EPH (Method MADEP-EPH-04-1)								
C ₇ -C ₁₄ Aliphatics	mg/kg	1,000	1.0	<36.5	<33.4	<31.4	<40.3	<33.5
C ₁₀ -C ₁₄ Aliphatics	mg/kg	2,500	2.5	<36.5	<33.4	<31.4	<40.3	<33.5
C ₁₁ -C ₁₅ Aromatics	mg/kg	800	80	<36.5	<33.4	<31.4	<40.3	<33.5
Acenaphthene	mg/kg	1,000	1.0	0.4	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	mg/kg	100	10	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	mg/kg	1,000	1.0	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)anthracene	mg/kg	7	7	0.5	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	2	2	1.4	<0.2	<0.2	<0.2	<0.2
Benzo(b)fluoranthene	mg/kg	7	7	1.3	<0.2	<0.2	<0.2	<0.2
Benzo(k)fluoranthene	mg/kg	70	70	1.8	<0.2	<0.2	<0.2	<0.2
Benzo(g,h,i)perylene	mg/kg	1,000	1.0	0.7	<0.2	<0.2	<0.2	<0.2
Chrysene	mg/kg	7	7	1.7	<0.2	<0.2	<0.2	<0.2
Dibenzo(a,h)anthracene	mg/kg	0.7	0.7	<0.2	<0.2	<0.2	<0.2	<0.2
Fluoranthene	mg/kg	1,000	1.0	3.6	<0.2	<0.2	<0.2	<0.2
Fluorene	mg/kg	1,000	1.0	0.3	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	mg/kg	7	7	0.7	<0.2	<0.2	<0.2	<0.2
2-Methylnaphthalene	mg/kg	500	50	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	mg/kg	40	40	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	mg/kg	1,000	10	3.1	<0.2	<0.2	<0.2	<0.2
Pyrene	mg/kg	1,000	1.0	3.4	<0.2	<0.2	<0.2	<0.2
VPH (Method MADEP-VPH-04-1.1)								
C ₇ -C ₁₄ Aliphatics	mg/kg	100	10	<22.0	<18.8	<18.5	<26.5	<19.7
C ₁₀ -C ₁₄ Aliphatics	mg/kg	1,000	1.0	<14.7	<12.5	<12.4	<17.7	<13.2
C ₁₀ -C ₁₄ Aromatics	mg/kg	100	10	<14.7	<12.5	<12.4	<17.7	<13.2
Benzene	mg/kg	30	30	<0.074	<0.063	<0.062	<0.089	<0.066
Ethylbenzene	mg/kg	500	50	<0.074	<0.063	<0.062	<0.089	<0.066
MTBE	mg/kg	100	10	<0.074	<0.063	<0.062	<0.089	<0.066
Naphthalene	mg/kg	40	40	<0.074	<0.063	<0.062	<0.089	<0.066
Toluene	mg/kg	300	30	<0.733	<0.624	<0.616	<0.882	<0.657
Total Xylenes	mg/kg	300	30	<0.074	<0.063	<0.062	<0.089	<0.066
	mg/kg			<0.221	<0.188	<0.186	<0.266	<0.198

QC by LVR 2/29/08

NOTES:

EPH = extractable petroleum hydrocarbons **Bold** = exceeds laboratory

VPH = volatile petroleum hydrocarbons **Bold** = exceeds S-1/GW-2

Bold = exceeds S-3/GW-2

mg/kg = milligrams per kilogram < = parameter not detected above lab

ND = not detected * Standards from the Massachusetts

NS = no standard



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC106

RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM

Release Tracking Number

1 - 00616

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

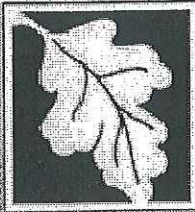
A. SITE LOCATION:

1. Site Name/Location Aid: Former Chapman Valve Manufacturing Facility
2. Street Address: 225 Goodwin Street
3. City/Town: Springfield 4. ZIP Code: 01151-0000
5. UTM Coordinates: a. UTM N: 4,669,460 m b. UTM E: 706,640 m
- ☐ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☒ d. Tier II
7. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial RAM Plan (if previously submitted): 09/17/2007
(mm/dd/yyyy)
- ☐ 2. Submit an Initial Release Abatement Measure (RAM) Plan.
a. Check here if the RAM is being conducted as part of the construction of a permanent structure. If checked, you must specify what type of permanent structure is to be erected in or in the immediate vicinity of the area where the RAM is to be conducted.
b. Specify type of permanent structure: (check all that apply) ☐ i. School ☐ ii. Residential ☐ iii. Commercial
☐ iv. Industrial ☐ v. Other Specify: _____
- ☐ 3. Submit a Modified RAM Plan of a previously submitted RAM Plan.
- ☒ 4. Submit a RAM Status Report.
- ☐ 5. Submit a Remedial Monitoring Report. (This report can only be submitted through eDEP, concurrent with a RAM Status Report.)
a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report
b. Number of Remedial Systems and/or Monitoring Programs: _____
A separate BWSC106A, RAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.
- ☐ 6. Submit a RAM Completion Statement.
- ☐ 7. Submit a Revised RAM Completion Statement.
8. Provide Additional RTNs:
☐ a. Check here if this RAM Submittal covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here. This section is intended to allow a RAM to cover more than one unclassified RTN and not show permanent linkage to a Primary Tier Classified RTN.
b. Provide the additional Release Tracking Number(s) covered by this RAM Submittal. ☐ - ☐ -

(All sections of this transmittal form must be filled out unless otherwise noted above)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC106

RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM

Release Tracking Number

1 - 00616

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

D. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply, for volumes list cumulative amounts)

☒ 13. Excavation of Contaminated Soils

☐ a. Re-use, Recycling or Treatment

☐ i. On Site Estimated volume in cubic yards _____

☒ ii. Off Site Estimated volume in cubic yards 310

ii.a. Receiving Facility: Ted Ondrick Company Town: Chicopee State: MA

ii.b. Receiving Facility: _____ Town: _____ State: _____

iii. Describe: Contaminated soil from UST graves

☐ b. Store

☐ i. On Site Estimated volume in cubic yards _____

☐ ii. Off Site Estimated volume in cubic yards _____

ii.a. Receiving Facility: _____ Town: _____ State: _____

ii.b. Receiving Facility: _____ Town: _____ State: _____

☐ c. Landfill

☐ i. Cover Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☐ ii. Disposal Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☒ 14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: removal of four 15,000-gallon Underground Storage Tanks

b. Receiving Facility: Mass Tank Disposal Town: Chicopee State: MA

c. Receiving Facility: _____ Town: _____ State: _____

☐ 15. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Receiving Facility: _____ Town: _____ State: _____

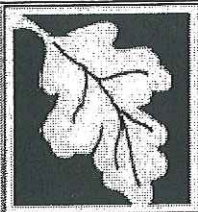
c. Receiving Facility: _____ Town: _____ State: _____

☐ 16. Other Response Actions:

Describe: _____

☐ 17. Use of Innovative Technologies:

Describe: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC106

RELEASE ABATEMENT MEASURE (RAM)
TRANSMITTAL FORM

Release Tracking Number

1 - 00616

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

F. PERSON UNDERTAKING RAM:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions
2. Name of Organization: City of Springfield
3. Contact First Name: David 4. Last Name: Panagore
5. Street: 70 Tapley Street 6. Title: Dir., Planning & Economic Development
7. City/Town: Springfield 8. State: MA 9. ZIP Code: 01104-0000
10. Telephone: (413) 787-6020 11. Ext.: 12. FAX: (413) 787-6524

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING RAM:

- ☐ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter
- ☐ e. Other RP or PRP Specify:
- ☒ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- ☐ 4. Any Other Person Undertaking RAM Specify Relationship:

H. REQUIRED ATTACHMENT AND SUBMITTALS:

- ☐ 1. Check here if any Remediation Waste, generated as a result of this RAM, will be stored, treated, managed, recycled or reused at the site following submission of the RAM Completion Statement. You must submit a Phase IV Remedy Implementation Plan along with the appropriate transmittal form (BWSC108).
- ☐ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- ☒ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the implementation of a Release Abatement Measure.
- ☐ 4. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to the DEP Regional Office.
- ☐ 5. If a RAM Compliance Fee is required for this RAM, check here to certify that a RAM Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.
- ☒ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



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

REPORT DATE 1/8/2008

ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-12549

JOB NUMBER: 2070222A

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

PROJECT LOCATION: CHAPMAN VALVE, SPRINGFIELD MA

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
SOUTH SIDE WALL	08B00393	SOIL	NOT SPECIFIED	eph - solid 04
SOUTH SIDE WALL	08B00393	SOIL	NOT SPECIFIED	solids eph/vph
SOUTH SIDE WALL	08B00393	SOIL	NOT SPECIFIED	vph - solid 04
WEST SIDE WALL	08B00394	SOIL	NOT SPECIFIED	eph - solid 04
WEST SIDE WALL	08B00394	SOIL	NOT SPECIFIED	solids eph/vph
WEST SIDE WALL	08B00394	SOIL	NOT SPECIFIED	vph - solid 04



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REPORT DATE 1/8/2008

ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-12549

JOB NUMBER: 2070222A

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

ALL EPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW:
ALL PROPERLY PRESERVED

SOLID SAMPLES, IF ANY, IN THE BATCH WERE EXTRACTED BY THE FOLLOWING METHOD:
MICROWAVE: SW846 3546

SPE CARTRIDGE CONTAMINATION WITH NON-PETROLEUM COMPOUNDS, IF PRESENT, IS VERIFIED BY GC/MS IN EACH METHOD BLANK PER EXTRACTION BATCH AND EXCLUDED FROM C11-C22 AROMATIC RANGE FRACTION IN ALL SAMPLES IN THE BATCH. THE EPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMITS EXCEPT WHERE LISTED BELOW:
NO CONTAMINATION NOTED

ALL EPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:
NO DILUTIONS WERE PERFORMED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR EPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL EPH TARGET COMPOUNDS AND RANGES, INCLUDING NAPHTHALENE AND 2-METHYLNAPHTHALENE BREAKTHROUGH INTO THE ALIPHATIC FRACTION WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

ALL EPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

EPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE REQUESTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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

Edward Denson 1/8/08

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/8/2008

Page 1 of 8

Project Location: CHAPMAN VALVE, SPRINGFIELD MA
Date Received: 1/4/2008

LIMS-BAT #: LIMIT-12549

Job Number: 2070222A

Field Sample #: SOUTH SIDE WALL

Sample ID : 08B00393

Sampled : 1/4/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
C9-C18 Aliphatics	mg/kg dry wt	ND	01/07/08	CJM	32.0		
C19-C36 Aliphatics	mg/kg dry wt	ND	01/07/08	CJM	32.0		
Unadjusted C11-C22 Aromatics	mg/kg dry wt	ND	01/07/08	CJM	32.0		
C11-C22 Aromatics	mg/kg dry wt	ND	01/07/08	CJM	32.0		
Acenaphthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Acenaphthylene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(a)anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(a)pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Chrysene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Fluorene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
2-Methylnaphthalene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Naphthalene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Phenanthrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Date Extracted EPH Solid		1/4/2008	01/07/08	CJM			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/8/2008

Page 3 of 8

Project Location: CHAPMAN VALVE, SPRINGFIELD MA

LIMS-BAT #: LIMT-12549

Date Received: 1/4/2008

Job Number: 2070222A

Field Sample #: WEST SIDE WALL

Sample ID: 08B00394

Sampled: 1/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P / F
C9-C18 Aliphatics	mg/kg dry wt	ND	01/07/08	CJM	34.3		
C19-C36 Aliphatics	mg/kg dry wt	ND	01/07/08	CJM	34.3		
Unadjusted C11-C22 Aromatics	mg/kg dry wt	ND	01/07/08	CJM	34.3		
C11-C22 Aromatics	mg/kg dry wt	ND	01/07/08	CJM	34.3		
Acenaphthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Acenaphthylene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(a)anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(a)pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Chrysene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Fluoranthene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Fluorene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
2-Methylnaphthalene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Naphthalene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Phenanthrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Pyrene	mg/kg dry wt	ND	01/07/08	CJM	0.2		
Date Extracted EPH Solid		1/4/2008	01/07/08	CJM			

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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/8/2008

Page 5 of 8

Project Location: CHAPMAN VALVE, SPRINGFIELD MA

LIMS-BAT #: LIMIT-12549

Date Received: 1/4/2008

Job Number: 2070222A

Field Sample #: SOUTH SIDE WALL

Sample ID: 08B00393

Sampled: 1/4/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	94.0	01/07/08	VAK			

Field Sample #: WEST SIDE WALL

Sample ID: 08B00394

Sampled: 1/4/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.5	01/07/08	VAK			

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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Purchase Order No.: 2070222

1/8/2008

Page 7 of 8

Project Location: CHAPMAN VALVE, SPRINGFIELD MA

Date Received: 1/4/2008

LIMS-BAT #: LIMIT-12549

Job Number: 2070222A

Field Sample #: WEST SIDE WALL

Sample ID : 08B00394

Sampled : 1/4/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	01/07/08	EH	20.0		
C5-C8 Aliphatics	mg/kg dry wt	ND	01/07/08	EH	20.0		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	01/07/08	EH	13.3		
C9-C12 Aliphatics	mg/kg dry wt	ND	01/07/08	EH	13.3		
C9-C10 Aromatics	mg/kg dry wt	ND	01/07/08	EH	13.3		
Benzene	mg/kg dry wt	ND	01/07/08	EH	0.067		
Ethylbenzene	mg/kg dry wt	ND	01/07/08	EH	0.067		
MTBE	mg/kg dry wt	ND	01/07/08	EH	0.067		
Naphthalene	mg/kg dry wt	ND	01/07/08	EH	0.665		
Toluene	mg/kg dry wt	ND	01/07/08	EH	0.067		
m/p-Xylene	mg/kg dry wt	ND	01/07/08	EH	0.133		
o-Xylene	mg/kg dry wt	ND	01/07/08	EH	0.067		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

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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: 1/8/2008

Lims Bat #: LIMIT-12549

Page 1 of 12

QC Batch Number: GC/FID-20013

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B00393	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	93.9	%	70-130
08B00394	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	94.8	%	70-130
BLANK-111903	C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
	Unadjusted C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	Unadjusted C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
LFBANK-73339	Nonane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	4.795	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.525	%	30-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.698	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.084	%	30-130
		Lab Fort Blank Range	1.440	units	
		Lab Fort Bl. Av. Rec	70.805	%	
		LFB Duplicate RPD	2.034	%	0-25
	Pentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	5.238	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.135	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.653	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	84.322	%	70-130
		Lab Fort Blank Range	6.186	units	
		Lab Fort Bl. Av. Rec	81.228	%	
		LFB Duplicate RPD	7.616	%	0-25
	2-Methylpentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	5.289	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.898	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.636	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	84.067	%	70-130
		Lab Fort Blank Range	5.169	units	
		Lab Fort Bl. Av. Rec	81.483	%	
		LFB Duplicate RPD	6.344	%	0-25
	2,2,4-Trimethylpentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	4.710	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.254	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.750	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.847	%	70-130
		Lab Fort Blank Range	0.593	units	



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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: 1/8/2008

Lims Bat #: LIMIT-12549

Page 3 of 12

QC Batch Number: GC/FID-20016

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B00393	2-Fluorobiphenyl	Surrogate Recovery	81.7	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	66.8	%	40-140
	Chlorooctadecane	Sur. Recovery	88.7	%	40-140
	Terphenyl	Sur. Recovery	72.1	%	40-140
08B00394	2-Fluorobiphenyl	Surrogate Recovery	85.1	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	72.4	%	40-140
	Chlorooctadecane	Sur. Recovery	89.7	%	40-140
	Terphenyl	Sur. Recovery	76.3	%	40-140
BLANK-111902	Naphthalene	Blank	<0.1	mg/kg dry wt	
	Acenaphthene	Blank	<0.1	mg/kg dry wt	
	Acenaphthylene	Blank	<0.1	mg/kg dry wt	
	Anthracene	Blank	<0.1	mg/kg dry wt	
	Benzo(a)anthracene	Blank	<0.1	mg/kg dry wt	
	Benzo(a)pyrene	Blank	<0.1	mg/kg dry wt	
	Benzo(b)fluoranthene	Blank	<0.1	mg/kg dry wt	
	Benzo(g,h,i)perylene	Blank	<0.1	mg/kg dry wt	
	Chrysene	Blank	<0.1	mg/kg dry wt	
	Dibenzo(a,h)anthracene	Blank	<0.1	mg/kg dry wt	
	Fluoranthene	Blank	<0.1	mg/kg dry wt	
	Fluorene	Blank	<0.1	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	Blank	<0.1	mg/kg dry wt	
	2-Methylnaphthalene	Blank	<0.1	mg/kg dry wt	
	Phenanthrene	Blank	<0.1	mg/kg dry wt	
	Pyrene	Blank	<0.1	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.1	mg/kg dry wt	
	n-Nonane	Blank	<0.1	mg/kg dry wt	
	Naphthalene Aliphatic Fraction	Blank	<0.1	mg/kg dry wt	
	2-Methylnaphthalene Aliphatic Fraction	Blank	<0.1	mg/kg dry wt	
	Unadjusted C11-C22 Aromatics	Blank	<30.0	mg/kg dry wt	
	C9-C18 Aliphatics	Blank	<30.0	mg/kg dry wt	
	C19-C36 Aliphatics	Blank	<30.0	mg/kg dry wt	
	C11-C22 Aromatics	Blank	<30.0	mg/kg dry wt	
LFBLANK-73337	Naphthalene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	3.4	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.3	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.1	%	40-140
		Lab Fort Blank Range	11.7	units	
		Lab Fort Bl. Av. Rec	74.2	%	



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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: 1/8/2008

Lims Bat #: LIMIT-12549

Page 5 of 12

QC Batch Number: GC/FID-20016

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73337	Benzo(a)pyrene	Lab Fort Blank Range	14.5	units	
		Lab Fort Bl. Av. Rec	101.4	%	
		LFB Duplicate RPD	14.3	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
	Benzo(b)fluoranthene	Lab Fort Blk. Found	4.5	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.3	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	106.1	%	40-140
		Lab Fort Blank Range	14.9	units	
		Lab Fort Bl. Av. Rec	98.6	%	
		LFB Duplicate RPD	15.1	%	0-25
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.6	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.9	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.3	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	106.9	%	40-140
		Lab Fort Blank Range	13.9	units	
		Lab Fort Bl. Av. Rec	99.9	%	
		LFB Duplicate RPD	13.9	%	0-25
	Chrysene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.8	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.5	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.6	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	112.9	%	40-140
		Lab Fort Blank Range	15.4	units	
		Lab Fort Bl. Av. Rec	105.2	%	
		LFB Duplicate RPD	14.6	%	0-25
	Dibenzo(a,h)anthracene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.4	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.5	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	110.0	%	40-140
		Lab Fort Blank Range	14.6	units	
		Lab Fort Bl. Av. Rec	102.7	%	
		LFB Duplicate RPD	14.2	%	0-25
	Fluoranthene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.6	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	



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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: 1/8/2008 Lims Bat #: LIMIT-12549 Page 7 of 12
QC Batch Number: GC/FID-20016

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73337	Pyrene	Lab Fort Blk. % Rec.	95.7	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.5	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	111.5	%	40-140
		Lab Fort Blank Range	15.8	units	
		Lab Fort Bl. Av. Rec	103.6	%	
		LFB Duplicate RPD	15.2	%	0-25
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.1	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.5	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	110.0	%	40-140
		Lab Fort Blank Range	14.8	units	
	n-Nonane	Lab Fort Bl. Av. Rec	102.6	%	
		LFB Duplicate RPD	14.4	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	2.1	mg/kg dry wt	
		Lab Fort Blk. % Rec.	42.1	%	30-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	2.4	mg/kg dry wt	
	Naphthalene Aliphatic Fraction	Dup Lab Fort Bl %Rec	48.7	%	30-140
		Lab Fort Blank Range	6.6	units	
		Lab Fort Bl. Av. Rec	45.4	%	
		LFB Duplicate RPD	14.5	%	
		Lab Fort Blank Amt.	3.4	mg/kg dry wt	
		Lab Fort Blk. Found	0.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	0.0	%	0-5
	2-Methylnaphthalene Aliphatic Fraction	Dup Lab Fort Bl Amt.	4.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	0.0	%	0-5
		Lab Fort Blank Range	0.0	units	
		Lab Fort Bl. Av. Rec	0.0	%	
		Lab Fort Blank Amt.	3.8	mg/kg dry wt	
		Lab Fort Blk. Found	0.0	mg/kg dry wt	
	Unadjusted C11-C22 Aromatics	Lab Fort Blk. % Rec.	0.0	%	0-5
		Dup Lab Fort Bl Amt.	4.5	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	0.0	%	0-5
		Lab Fort Blank Range	0.0	units	
		Lab Fort Bl. Av. Rec	0.0	%	
		Lab Fort Blank Amt.	85.0	mg/kg dry wt	
		Lab Fort Blk. Found	71.5	mg/kg dry wt	



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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: 1/8/2008

Lims Bat #: LIMT-12549

Page 9 of 12

QC Batch Number: GC/PID-8447

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B00393	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	113.0	%	70-130
08B00394	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	111.1	%	70-130
BLANK-111901	Benzene	Blank	<0.054	mg/kg dry wt	
	Ethylbenzene	Blank	<0.054	mg/kg dry wt	
	Naphthalene	Blank	<0.532	mg/kg dry wt	
	Toluene	Blank	<0.054	mg/kg dry wt	
	o-Xylene	Blank	<0.054	mg/kg dry wt	
	m/p-Xylene	Blank	<0.107	mg/kg dry wt	
	C9-C10 Aromatics	Blank	<10.7	mg/kg dry wt	
	MTBE	Blank	<0.054	mg/kg dry wt	
LFBBLANK-73336	Benzene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	5.659	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.406	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.738	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.593	%	70-130
		Lab Fort Blank Range	1.186	units	
		Lab Fort Bl. Av. Rec	85.000	%	
		LFB Duplicate RPD	1.395	%	0-25
	Ethylbenzene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	6.079	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.677	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	6.193	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.372	%	70-130
		Lab Fort Blank Range	1.694	units	
		Lab Fort Bl. Av. Rec	91.525	%	
		LFB Duplicate RPD	1.851	%	0-25
	Naphthalene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	7.727	mg/kg dry wt	
		Lab Fort Blk. % Rec.	115.254	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	7.613	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	113.559	%	70-130
		Lab Fort Blank Range	1.694	units	
		Lab Fort Bl. Av. Rec	114.406	%	
		LFB Duplicate RPD	1.481	%	0-25
	Toluene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	5.852	mg/kg dry wt	
		Lab Fort Blk. % Rec.	87.288	%	70-130



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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: 1/8/2008

Lims Bat #: LIMIT-12549

Page 11 of 12

NOTES:

QC Batch No.: GC/PID-8447

Sample ID: LFBLANK-73336

Analysis: MTBE

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: CON-TEST Analytical Laboratory

Project #: LIMT-12549

Project Location: CHAPMAN VALVE, SPRINGFIELD

MADEP RTN¹:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

08B00393 - 08B00394

Sample Matrices: ☐ Groundwater ☒ Soil/Sediment ☐ Drinking Water ☐ Other:

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH <input checked="" type="checkbox"/>	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH <input checked="" type="checkbox"/>	7000 S ³ ()	7196A ()
	1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only</u> : Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Edward Denson

Position: Technical Director

Printed Name: Edward Denson

Date: 1/8/08



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
WWW.CONTESTLABS.COM

CHAIN OF CUSTODY RECORD

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

Page 1 of 1

Limf-12544

Company Name: ASSOCIATED BUILDING WATER CONSTRUCTION AND SALES
Address: 5 CENTENNIAL DR SPRINGFIELD, MA 01105
Telephone: (417) 977-0110 X2329

Project # 2070222A
Client PO # 2070222

Attention: DR. NANCY VALDEBLAHO

Project Location: CHADMAN VALVE, SPRINGFIELD MA

Sampled By: LVR

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☒ no

DATA DELIVERY (check one):
☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax #: (417) 977-0110
Email: INFO@CONTESTLABS.COM
Format: ☐ EXCEL ☒ PDF ☐ GIS KEY

Field ID 088 Sample Description NORTH SIDE WALL Lab # 00392 Start Date/Time 1-4-08 Stop Date/Time 1245 Comp- osite X Grab X Matrix Code Soil Conc. Code L

00393 SOUTH SIDE WALL 00393 1250 1 1 1 1

00394 WEST SIDE WALL 00394 1255 1 1 1 1

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 1/4/08

Received by: (signature) [Signature] Date/Time: 1/4/08

Relinquished by: (signature) [Signature] Date/Time: 1/4/08

Received by: (signature) [Signature] Date/Time: 1/4/08

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other RUSH

Detection Limit Requirements
Regulations? MA DEP MCP
Data Enhancement Project/RCPP? Y ☐ N

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

Preservation Codes:
I = Ice
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other

ANALYSIS REQUESTED

of containers

**Preservation

-Cont Code

-Cont. Code

A = amber glass

G = glass

P = plastic

ST = sterile

V = vial

S = sunbath can

T = radial bag

O = Other

Comments:

Client

Comments:

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

AIHA, NELAP & WBE/DBE Certified



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

REPORT DATE 1/10/2008

ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-12597

JOB NUMBER: 2070222A

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

PROJECT LOCATION: CHAPMAN VALVE

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
*EAST SIDE WALL	08B00684	SOIL	NOT SPECIFIED	eph - solid 04
*EAST SIDE WALL	08B00684	SOIL	NOT SPECIFIED	solids eph/vph
*EAST SIDE WALL	08B00684	SOIL	NOT SPECIFIED	vph - solid 04
END UST PIT BOTT	08B00682	SOIL	NOT SPECIFIED	eph - solid 04
END UST PIT BOTT	08B00682	SOIL	NOT SPECIFIED	solids eph/vph
END UST PIT BOTT	08B00682	SOIL	NOT SPECIFIED	vph - solid 04
*LEFT UST PIT BOT	08B00685	SOIL	NOT SPECIFIED	eph - solid 04
*LEFT UST PIT BOT	08B00685	SOIL	NOT SPECIFIED	solids eph/vph
*LEFT UST PIT BOT	08B00685	SOIL	NOT SPECIFIED	vph - solid 04
*NORTH SIDE WAL	08B00683	SOIL	NOT SPECIFIED	eph - solid 04
*NORTH SIDE WAL	08B00683	SOIL	NOT SPECIFIED	solids eph/vph
*NORTH SIDE WAL	08B00683	SOIL	NOT SPECIFIED	vph - solid 04



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REPORT DATE 1/10/2008

ASSOCIATED BUILDING WRECKERS

352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-12597

JOB NUMBER: 2070222A

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

ALL REPORTED

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) MADEP-EPH-04-1.1

RECOMMENDED SAMPLE HOLDING TIMES WERE NOT EXCEEDED FOR ALL SAMPLES ANALYZED BY THE EPH METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL EPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW:
ALL PROPERLY PRESERVED

SOLID SAMPLES, IF ANY, IN THE BATCH WERE EXTRACTED BY THE FOLLOWING METHOD:
MICROWAVE: SW846 3546

SPE CARTRIDGE CONTAMINATION WITH NON-PETROLEUM COMPOUNDS, IF PRESENT, IS VERIFIED BY GC/MS IN EACH METHOD BLANK PER EXTRACTION BATCH AND EXCLUDED FROM C11-C22 AROMATIC RANGE FRACTION IN ALL SAMPLES IN THE BATCH. THE EPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMITS EXCEPT WHERE LISTED BELOW:
NO CONTAMINATION NOTED

ALL EPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:

SAMPLE	DILUTION(S)
08B00682	X20, X10, AND UNDILUTE
08B00685	X80, X40, AND UNDILUTE

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR EPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL EPH TARGET COMPOUNDS AND RANGES, INCLUDING NAPHTHALENE AND 2-METHYLNAPHTHALENE BREAKTHROUGH INTO THE ALIPHATIC FRACTION WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

ALL EPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

EPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE REQUESTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/10/2008

Page 1 of 15

Project Location: CHAPMAN VALVE

Date Received: 1/8/2008

Field Sample #: EAST SIDE WALL

LIMS-BAT #: LIMIT-12597

Job Number: 2070222A

Sample ID : 08B00684

Sampled : 1/8/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
C9-C18 Aliphatics	mg/kg dry wt	ND	01/09/08	CJM	31.8			
C19-C36 Aliphatics	mg/kg dry wt	46.0	01/09/08	CJM	31.8			
Unadjusted C11-C22 Aromatics	mg/kg dry wt	ND	01/09/08	CJM	31.8			
C11-C22 Aromatics	mg/kg dry wt	ND	01/09/08	CJM	31.8			
Acenaphthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Acenaphthylene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(a)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(a)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Chrysene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Fluorene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
2-Methylnaphthalene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Naphthalene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Phenanthrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Date Extracted EPH Solid		1/8/2008	01/09/08	CJM				

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/10/2008

Page 3 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008
Field Sample #: END UST PIT BOTTOM

LIMS-BAT #: LIMT-12597

Job Number: 2070222A

Sample ID : *08B00682
Sampled : 1/7/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
C9-C18 Aliphatics	mg/kg dry wt	1580	01/09/08	CJM	33.7			
C19-C36 Aliphatics	mg/kg dry wt	220	01/09/08	CJM	33.7			
Unadjusted C11-C22 Aromatics	mg/kg dry wt	283	01/09/08	CJM	33.7			
C11-C22 Aromatics	mg/kg dry wt	275	01/09/08	CJM	33.7			
Acenaphthene	mg/kg dry wt	0.4	01/09/08	CJM	0.2			
Acenaphthylene	mg/kg dry wt	1.3	01/09/08	CJM	0.2			
Anthracene	mg/kg dry wt	0.4	01/09/08	CJM	0.2			
Benzo(a)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(a)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Chrysene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Fluorene	mg/kg dry wt	1.7	01/09/08	CJM	0.2			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
2-Methylnaphthalene	mg/kg dry wt	1.3	01/09/08	CJM	0.2			
Naphthalene	mg/kg dry wt	1.4	01/09/08	CJM	0.2			
Phenanthrene	mg/kg dry wt	0.8	01/09/08	CJM	0.2			
Pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2			
Date Extracted EPH Solid		1/8/2008	01/09/08	CJM				

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/10/2008

Page 5 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008

LIMS-BAT #: LIMT-12597

Job Number: 2070222A

Field Sample #: LEFT UST PIT BOTTOM

Sample ID : *08B00685

Sampled : 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
C9-C18 Aliphatics	mg/kg dry wt	7120	01/09/08	CJM	32.8		
C19-C36 Aliphatics	mg/kg dry wt	976	01/09/08	CJM	32.8		
Unadjusted C11-C22 Aromatics	mg/kg dry wt	1050	01/09/08	CJM	32.8		
C11-C22 Aromatics	mg/kg dry wt	1010	01/09/08	CJM	32.8		
Acenaphthene	mg/kg dry wt	1.9	01/09/08	CJM	0.2		
Acenaphthylene	mg/kg dry wt	4.4	01/09/08	CJM	0.2		
Anthracene	mg/kg dry wt	1.7	01/09/08	CJM	0.2		
Benzo(a)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(a)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Chrysene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Fluorene	mg/kg dry wt	6.1	01/09/08	CJM	0.2		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
2-Methylnaphthalene	mg/kg dry wt	11.8	01/09/08	CJM	0.2		
Naphthalene	mg/kg dry wt	3.5	01/09/08	CJM	0.2		
Phenanthrene	mg/kg dry wt	3.7	01/09/08	CJM	0.2		
Pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Date Extracted EPH Solid		1/8/2008	01/09/08	CJM			

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Purchase Order No.: 2070222

1/10/2008

Page 7 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008
Field Sample #: NORTH SIDE WALL

LIMS-BAT #: LIMT-12597
Job Number: 2070222A

Sample ID : 08B00683

Sampled : 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
C9-C18 Aliphatics	mg/kg dry wt	ND	01/09/08	CJM	34.2		
C19-C36 Aliphatics	mg/kg dry wt	ND	01/09/08	CJM	34.2		
Unadjusted C11-C22 Aromatics	mg/kg dry wt	ND	01/09/08	CJM	34.2		
C11-C22 Aromatics	mg/kg dry wt	ND	01/09/08	CJM	34.2		
Acenaphthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Acenaphthylene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(a)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(a)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(b)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Benzo(k)fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Chrysene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Dibenzo(a,h)anthracene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Fluoranthene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Fluorene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
2-Methylnaphthalene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Naphthalene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Phenanthrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Pyrene	mg/kg dry wt	ND	01/09/08	CJM	0.2		
Date Extracted EPH Solid		1/8/2008	01/09/08	CJM			

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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/10/2008
Page 9 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008
Field Sample #: EAST SIDE WALL

LIMS-BAT #: LIMIT-12597
Job Number: 2070222A

Sample ID : 08B00684
Sampled : 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
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Solids, total	%	94.5	01/10/08	VAK			
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Field Sample #: END UST PIT BOTTOM

Sample ID : 08B00682
Sampled : 1/7/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
--	-------	---------	---------------	---------	----	---------------------	------

Solids, total	%	89.1	01/10/08	VAK			
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Field Sample #: LEFT UST PIT BOTTOM

Sample ID : 08B00685
Sampled : 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
--	-------	---------	---------------	---------	----	---------------------	------

Solids, total	%	91.6	01/10/08	VAK			
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Field Sample #: NORTH SIDE WALL

Sample ID : 08B00683
Sampled : 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
--	-------	---------	---------------	---------	----	---------------------	------

Solids, total	%	87.9	01/10/08	VAK			
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Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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Purchase Order No.: 2070222

1/10/2008
Page 11 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008
Field Sample #: END UST PIT BOTTOM

LIMS-BAT #: LIMT-12597
Job Number: 2070222A

Sample ID: 08B00682
Sampled: 1/7/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	42.9	01/08/08	EH	19.2		
C5-C8 Aliphatics	mg/kg dry wt	42.9	01/08/08	EH	19.2		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	289	01/08/08	EH	12.8		
C9-C12 Aliphatics	mg/kg dry wt	45.9	01/08/08	EH	12.8		
C9-C10 Aromatics	mg/kg dry wt	242	01/08/08	EH	12.8		
Benzene	mg/kg dry wt	ND	01/08/08	EH	0.064		
Ethylbenzene	mg/kg dry wt	0.380	01/08/08	EH	0.064		
MTBE	mg/kg dry wt	ND	01/08/08	EH	0.064		
Naphthalene	mg/kg dry wt	3.79	01/08/08	EH	0.638		
Toluene	mg/kg dry wt	ND	01/08/08	EH	0.064		
m/p-Xylene	mg/kg dry wt	0.238	01/08/08	EH	0.128		
o-Xylene	mg/kg dry wt	0.682	01/08/08	EH	0.064		

Analytical Method:
MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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Purchase Order No.: 2070222

1/10/2008
Page 13 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008
Field Sample #: NORTH SIDE WALL

LIMS-BAT #: LIMIT-12597
Job Number: 2070222A

Sample ID: *08B00683
Sampled: 1/8/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P / F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	01/08/08	EH	15.3		
C5-C8 Aliphatics	mg/kg dry wt	ND	01/08/08	EH	15.3		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	01/08/08	EH	10.2		
C9-C12 Aliphatics	mg/kg dry wt	ND	01/08/08	EH	10.2		
C9-C10 Aromatics	mg/kg dry wt	ND	01/08/08	EH	10.2		
Benzene	mg/kg dry wt	ND	01/08/08	EH	0.051		
Ethylbenzene	mg/kg dry wt	ND	01/08/08	EH	0.051		
MTBE	mg/kg dry wt	ND	01/08/08	EH	0.051		
Naphthalene	mg/kg dry wt	ND	01/08/08	EH	0.509		
Toluene	mg/kg dry wt	ND	01/08/08	EH	0.051		
m/p-Xylene	mg/kg dry wt	ND	01/08/08	EH	0.102		
o-Xylene	mg/kg dry wt	ND	01/08/08	EH	0.051		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

1/10/2008
Page 15 of 15

Project Location: CHAPMAN VALVE
Date Received: 1/8/2008

LIMS-BAT #: LIMIT-12597
Job Number: 2070222A

Sample ID: * 08B00684
Analysis: vph - solid 04

SOIL/METHANOL RATIO DOES NOT MEET METHOD SPECIFICATIONS.
EXCESS AMOUNT OF SOIL.

Sample ID: * 08B00685
Analysis: C19-C36 Aliphatics

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: Unadjusted C11-C22 Aromatics

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: Acenaphthene

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: Anthracene

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: Naphthalene

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: Phenanthrene

REPORTED RESULT IS ESTIMATED. FRACTIONATION CARTRIDGE IS OVERLOADED.

Sample ID: * 08B00685
Analysis: vph - solid 04

SOIL/METHANOL RATIO DOES NOT MEET METHOD SPECIFICATIONS.
EXCESS AMOUNT OF SOIL.

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/10/2008

Lims Bat #: LIMIT-12597

Page 2 of 13

QC Batch Number: GC/FID-20040

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73449	2,2,4-Trimethylpentane	Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	5.965	mg/kg dry wt	
		Dup Lab Fort BI %Rec	105.000	%	70-130
		Lab Fort Blank Range	6.800	units	
		Lab Fort BI. Av. Rec	101.600	%	
		LFB Duplicate RPD	6.692	%	0-25
	n-Decane	Lab Fort Blank Amt.	5.681	mg/kg dry wt	
		Lab Fort Blk. Found	4.073	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.699	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.710	mg/kg dry wt	
		Dup Lab Fort BI %Rec	82.900	%	70-130
	n-Butylcyclohexane	Lab Fort Blank Range	11.200	units	
		Lab Fort BI. Av. Rec	77.300	%	
		LFB Duplicate RPD	14.489	%	0-25
		Lab Fort Blank Amt.	5.681	mg/kg dry wt	
		Lab Fort Blk. Found	4.471	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.700	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.846	mg/kg dry wt	
		Dup Lab Fort BI %Rec	85.300	%	70-130
		Lab Fort Blank Range	6.599	units	
		Lab Fort BI. Av. Rec	82.000	%	
		LFB Duplicate RPD	8.048	%	0-25



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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: 1/10/2008

Lims Bat #: LIMIT-12597

Page 4 of 13

QC Batch Number: GC/FID-20045

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-112024	C11-C22 Aromatics	Blank	<30.0	mg/kg dry wt	
LFBLANK-73458	Naphthalene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	3.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.9	%	40-140
		Dup Lab Fort BI Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	3.4	mg/kg dry wt	
		Dup Lab Fort BI %Rec	68.5	%	40-140
		Lab Fort Blank Range	7.3	units	
		Lab Fort BI. Av. Rec	72.2	%	
		LFB Duplicate RPD	10.1	%	0-25
	Acenaphthene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.9	mg/kg dry wt	
		Lab Fort Blk. % Rec.	98.9	%	40-140
		Dup Lab Fort BI Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.4	mg/kg dry wt	
		Dup Lab Fort BI %Rec	89.3	%	40-140
		Lab Fort Blank Range	9.5	units	
		Lab Fort BI. Av. Rec	94.1	%	
		LFB Duplicate RPD	10.1	%	0-25
	Acenaphthylene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.5	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.2	%	40-140
		Dup Lab Fort BI Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.1	mg/kg dry wt	
		Dup Lab Fort BI %Rec	82.4	%	40-140
		Lab Fort Blank Range	8.8	units	
		Lab Fort BI. Av. Rec	86.8	%	
		LFB Duplicate RPD	10.1	%	0-25
	Anthracene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	5.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.5	%	40-140
		Dup Lab Fort BI Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.5	mg/kg dry wt	
		Dup Lab Fort BI %Rec	91.8	%	40-140
		Lab Fort Blank Range	8.7	units	
		Lab Fort BI. Av. Rec	96.2	%	
		LFB Duplicate RPD	9.0	%	0-25
	Benzo(a)anthracene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	5.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	101.0	%	40-140
		Dup Lab Fort BI Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.6	mg/kg dry wt	



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/10/2008

Lims Bat #: LIMIT-12597

Page 6 of 13

QC Batch Number: GC/FID-20045

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73458	Dibenzo(a,h)anthracene	Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.6	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	93.7	%	40-140
		Lab Fort Blank Range	6.2	units	
		Lab Fort Bl. Av. Rec	96.8	%	
		LFB Duplicate RPD	6.4	%	0-25
	Fluoranthene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.9	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.9	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.6	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.2	%	40-140
	Fluorene	Lab Fort Blank Range	7.6	units	
		Lab Fort Bl. Av. Rec	96.1	%	
		LFB Duplicate RPD	7.9	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.9	%	40-140
	Indeno(1,2,3-cd)pyrene	Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.2	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.8	%	40-140
		Lab Fort Blank Range	9.1	units	
		Lab Fort Bl. Av. Rec	90.4	%	
		LFB Duplicate RPD	10.0	%	0-25
	2-Methylnaphthalene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.6	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.5	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.3	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.3	%	40-140
	Phenanthrene	Lab Fort Blank Range	6.2	units	
		Lab Fort Bl. Av. Rec	89.4	%	
		LFB Duplicate RPD	6.9	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.2	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.3	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	3.8	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.1	%	40-140
		Lab Fort Blank Range	9.2	units	
		Lab Fort Bl. Av. Rec	80.7	%	
		LFB Duplicate RPD	11.4	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/10/2008

Lims Bat #: LIMIT-12597

Page 8 of 13

QC Batch Number: GC/FID-20045

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73458	2-Methylnaphthalene Aliphatic Fraction	Lab Fort Blank Amt.	4.2	mg/kg dry wt	
		Lab Fort Blk. Found	0.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	0.0	%	0-5
		Dup Lab Fort Bl Amt.	3.8	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	0.0	%	0-5
		Lab Fort Blank Range	0.0	units	
		Lab Fort Bl. Av. Rec	0.0	%	
	Unadjusted C11-C22 Aromatics	Lab Fort Blank Amt.	85.0	mg/kg dry wt	
		Lab Fort Blk. Found	77.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.6	%	40-140
		Dup Lab Fort Bl Amt.	85.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	71.3	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.9	%	40-140
		Lab Fort Blank Range	6.7	units	
		Lab Fort Bl. Av. Rec	87.2	%	
	C9-C18 Aliphatics	LFB Duplicate RPD	7.6	%	0-25
		Lab Fort Blank Amt.	30.0	mg/kg dry wt	
		Lab Fort Blk. Found	23.5	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.6	%	40-140
		Dup Lab Fort Bl Amt.	30.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	23.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.7	%	40-140
		Lab Fort Blank Range	1.8	units	
	C19-C36 Aliphatics	Lab Fort Bl. Av. Rec	77.7	%	
		LFB Duplicate RPD	2.4	%	0-25
		Lab Fort Blank Amt.	40.0	mg/kg dry wt	
		Lab Fort Blk. Found	37.8	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.5	%	40-140
		Dup Lab Fort Bl Amt.	40.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	34.5	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.3	%	40-140
		Lab Fort Blank Range	8.2	units	
		Lab Fort Bl. Av. Rec	90.4	%	
		LFB Duplicate RPD	9.0	%	0-25



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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: 1/10/2008

Lims Bat #: LIMIT-12597

Page 10 of 13

QC Batch Number: GC/PID-8449

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-73447	Naphthalene	LFB Duplicate RPD	3.508	%	0-25
		Lab Fort Blank Amt.	5.681	mg/kg dry wt	
	Toluene	Lab Fort Blk. Found	4.579	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.600	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.642	mg/kg dry wt	
		Dup Lab Fort BI %Rec	81.700	%	70-130
		Lab Fort Blank Range	1.100	units	
		Lab Fort BI. Av. Rec	81.150	%	
		LFB Duplicate RPD	1.355	%	0-25
	o-Xylene	Lab Fort Blank Amt.	5.681	mg/kg dry wt	
		Lab Fort Blk. Found	4.982	mg/kg dry wt	
		Lab Fort Blk. % Rec.	87.700	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	5.068	mg/kg dry wt	
		Dup Lab Fort BI %Rec	89.200	%	70-130
		Lab Fort Blank Range	1.499	units	
		Lab Fort BI. Av. Rec	88.450	%	
		LFB Duplicate RPD	1.695	%	0-25
		Lab Fort Blank Amt.	11.363	mg/kg dry wt	
	m/p-Xylene	Lab Fort Blk. Found	9.488	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.499	%	70-130
		Dup Lab Fort BI Amt.	11.363	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	9.659	mg/kg dry wt	
		Dup Lab Fort BI %Rec	84.999	%	70-130
		Lab Fort Blank Range	1.500	units	
		Lab Fort BI. Av. Rec	84.249	%	
		LFB Duplicate RPD	1.780	%	0-25
	MTBE	Lab Fort Blank Amt.	5.681	mg/kg dry wt	
		Lab Fort Blk. Found	4.562	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.300	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	4.607	mg/kg dry wt	
		Dup Lab Fort BI %Rec	81.100	%	70-130
		Lab Fort Blank Range	0.800	units	
		Lab Fort BI. Av. Rec	80.700	%	
		LFB Duplicate RPD	0.991	%	0-25
		Lab Fort Blank Amt.	5.681	mg/kg dry wt	
	1,2,4-TrimethylBenzene	Lab Fort Blk. Found	5.795	mg/kg dry wt	
		Lab Fort Blk. % Rec.	102.000	%	70-130
		Dup Lab Fort BI Amt.	5.681	mg/kg dry wt	
		Dup Lab Fort BI. Fnd	5.852	mg/kg dry wt	
		Dup Lab Fort BI %Rec	103.000	%	70-130



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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: 1/10/2008

Lims Bat #: LIMIT-12597

Page 12 of 13

NOTES:

QC Batch No. : GC/FID-20040
Sample ID : 08B00683
Analysis : 2,5-Dibromotoluene (FID)

SURROGATE RECOVERY IS OUTSIDE CONTROL LIMITS. REANALYSIS IS NOT REQUIRED
SINCE SAMPLE IS "NOT DETECTED" AND BIAS IS HIGH.

QC Batch No. : GC/PID-8449
Sample ID : 08B00683
Analysis : 2,5-Dibromotoluene (PID)

Surrogate high. Reanalysis not required, targets and ranges ND

QC Batch No. : GC/FID-20040
Sample ID : 08B00684
Analysis : 2,5-Dibromotoluene (FID)

SURROGATE RECOVERY IS OUTSIDE CONTROL LIMITS. REANALYSIS IS NOT REQUIRED
SINCE SAMPLE IS "NOT DETECTED" AND BIAS IS HIGH.

QC Batch No. : GC/PID-8449
Sample ID : 08B00684
Analysis : 2,5-Dibromotoluene (PID)

Surrogate high. Reanalysis not required, targets and ranges ND

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: **CON-TEST Analytical Laboratory** Project #: Limt-12597
 Project Location: CHAPMAN AVE. MADEP RTN¹:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

08B 00682 - 08B 00685

Sample Matrices: ☐ Groundwater ☒ Soil/Sediment ☐ Drinking Water ☐ Other: _____

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH (✓)	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH (X)	7000 S ³ ()	7196A ()
1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.					

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only:</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Sondra L. Slesinski Position: **Quality Assurance Officer**
 Printed Name: **Sondra L. Slesinski** Date: 01/10/08



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

CHAIN OF CUSTODY RECORD

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

Page 1 of 1

Company Name: ASSOCIATED BUILDING WRECKERS
Address: 352 ALBANY ST
SPRINGFIELD, MA 01105

Telephone: 978-532-1900
Project #: 2070222A
Client PO #: 2070222

Attention: FRED VANDERHOOF

Project Location: CHADMAN VALVE

Sampled By: LVR

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☒ no

DATA DELIVERY (check one):
☒ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax #: 978-532-1900
Email: info@contestlabs.com
Format: ☐ EXCEL ☒ PDF ☐ GIS KEY

Date Sampled

Start Date/Time: 1-7-08 1500

Stop Date/Time: 1-8-08 0815

Comp-oste: X

Grab: X

Matrix Code: M

Conc. Code: X

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Matrix Code: M

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EPH/TARGET PAHS

VPH/TARGET VOCs

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Matrix Code: M

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

AIHA, NELAP & WBE/DBE Certified



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

REPORT DATE 2/12/2008

ASSOCIATED BUILDING WRECKERS

352 ALBANY STREET

SPRINGFIELD, MA 01106

ATTN: FRED VANDERHOOF

CONTRACT NUMBER:

PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-13241

JOB NUMBER: 2070222A

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

PROJECT LOCATION: SPRINGFIELD, MA. CHAPMAN VALVE

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
EAST SIDE WALL	08B03741	SOIL	NOT SPECIFIED	eph - solid 04
EAST SIDE WALL	08B03741	SOIL	NOT SPECIFIED	solids eph/vph
EAST SIDE WALL	08B03741	SOIL	NOT SPECIFIED	vph - solid 04
NORTH SIDE WALL	08B03740	SOIL	NOT SPECIFIED	eph - solid 04
NORTH SIDE WALL	08B03740	SOIL	NOT SPECIFIED	solids eph/vph
NORTH SIDE WALL	08B03740	SOIL	NOT SPECIFIED	vph - solid 04
PIT BOTTOM	08B03742	SOIL	NOT SPECIFIED	eph - solid 04
PIT BOTTOM	08B03742	SOIL	NOT SPECIFIED	solids eph/vph
PIT BOTTOM	08B03742	SOIL	NOT SPECIFIED	vph - solid 04
UST 4 EAST SW	08B03743	SOIL	NOT SPECIFIED	eph - solid 04
UST 4 EAST SW	08B03743	SOIL	NOT SPECIFIED	solids eph/vph
UST 4 EAST SW	08B03743	SOIL	NOT SPECIFIED	vph - solid 04
WEST SIDE WALL	08B03739	SOIL	NOT SPECIFIED	eph - solid 04
WEST SIDE WALL	08B03739	SOIL	NOT SPECIFIED	solids eph/vph
WEST SIDE WALL	08B03739	SOIL	NOT SPECIFIED	vph - solid 04



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REPORT DATE 2/12/2008

ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-13241

JOB NUMBER: 2070222A

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

METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL VPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2; SOIL SAMPLES IN METHANOL WITH A SOIL/METHANOL RATIO OF 1:1 +/- 25% COMPLETELY COVERED BY METHANOL) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW: ALL PROPERLY PRESERVED

THE VPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW: NO CONTAMINATION NOTED

ALL VPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:
NO DILUTIONS WERE PERFORMED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR THE VPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL VPH COMPONENT STANDARD COMPOUNDS WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

ALL VPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: FOR SAMPLE 08B03740, SURROGATE RECOVERY IS OUTSIDE CONTROL LIMITS. REANALYSIS IS NOT REQUIRED SINCE SAMPLE IS "NOT DETECTED" AND BIAS IS HIGH.

VPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE REQUESTED

RESULTS FOR ALL ANALYTE-LIST COMPOUNDS WERE REPORTED FOR VPH UNLESS LISTED BELOW:
ALL REPORTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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

Sondra L. Slesinski 02/12/08

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

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



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008

Page 2 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

Date Received: 2/5/2008

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Field Sample #: EAST SIDE WALL

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

2/12/2008

Page 4 of 18

Purchase Order No.: 2070222

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE
Date Received: 2/5/2008

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Field Sample #: NORTH SIDE WALL

Analytical Method:
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008

Page 6 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE
Date Received: 2/5/2008

LIMS-BAT #: LIMT-13241

Job Number: 2070222A

Field Sample #: PIT BOTTOM

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008
Page 8 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

Date Received: 2/5/2008

Field Sample #: UST 4 EAST SW

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008
Page 10 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE
Date Received: 2/5/2008
Field Sample #: WEST SIDE WALL

LIMS-BAT #: LIMIT-13241
Job Number: 2070222A

Analytical Method:
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008

Page 11 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

Date Received: 2/5/2008

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Field Sample #: EAST SIDE WALL

Sample ID: 08B03741

Sampled: 2/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	95.5	02/07/08	MAM			

Field Sample #: NORTH SIDE WALL

Sample ID: 08B03740

Sampled: 2/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	74.6	02/07/08	MAM			

Field Sample #: PIT BOTTOM

Sample ID: 08B03742

Sampled: 2/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	89.6	02/07/08	MAM			

Field Sample #: UST 4 EAST SW

Sample ID: 08B03743

Sampled: 2/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	92.6	02/07/08	MAM			

Field Sample #: WEST SIDE WALL

Sample ID: 08B03739

Sampled: 2/4/2008

NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	90.1	02/07/08	MAM			

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FRED VANDERHOOF
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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008

Page 13 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

LIMS-BAT #: LIMIT-13241

Date Received: 2/5/2008

Job Number: 2070222A

Field Sample #: EAST SIDE WALL

Sample ID: 08B03741

Sampled: 2/4/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	18.5			
C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	18.5			
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	12.4			
C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	12.4			
C9-C10 Aromatics	mg/kg dry wt	ND	02/07/08	EH	12.4			
Benzene	mg/kg dry wt	ND	02/07/08	EH	0.062			
Ethylbenzene	mg/kg dry wt	ND	02/07/08	EH	0.062			
MTBE	mg/kg dry wt	ND	02/07/08	EH	0.062			
Naphthalene	mg/kg dry wt	ND	02/07/08	EH	0.616			
Toluene	mg/kg dry wt	ND	02/07/08	EH	0.062			
m/p-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.124			
o-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.062			

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/12/2008

Page 15 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

Date Received: 2/5/2008

Field Sample #: PIT BOTTOM

Sample ID: 08B03742

Sampled: 2/4/2008
NOT SPECIFIED

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	19.7		
C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	19.7		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	13.2		
C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	13.2		
C9-C10 Aromatics	mg/kg dry wt	ND	02/07/08	EH	13.2		
Benzene	mg/kg dry wt	ND	02/07/08	EH	0.066		
Ethylbenzene	mg/kg dry wt	ND	02/07/08	EH	0.066		
MTBE	mg/kg dry wt	ND	02/07/08	EH	0.066		
Naphthalene	mg/kg dry wt	ND	02/07/08	EH	0.657		
Toluene	mg/kg dry wt	ND	02/07/08	EH	0.066		
m/p-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.132		
o-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.066		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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Purchase Order No.: 2070222

2/12/2008
Page 17 of 18

Project Location: SPRINGFIELD, MA. CHAPMAN VALVE

Date Received: 2/5/2008

Field Sample #: WEST SIDE WALL

Sample ID : 08B03739

Sampled : 2/4/2008
NOT SPECIFIED

LIMS-BAT #: LIMIT-13241

Job Number: 2070222A

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	18.8		
C5-C8 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	18.8		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	12.5		
C9-C12 Aliphatics	mg/kg dry wt	ND	02/07/08	EH	12.5		
C9-C10 Aromatics	mg/kg dry wt	ND	02/07/08	EH	12.5		
Benzene	mg/kg dry wt	ND	02/07/08	EH	0.063		
Ethylbenzene	mg/kg dry wt	ND	02/07/08	EH	0.063		
MTBE	mg/kg dry wt	ND	02/07/08	EH	0.063		
Naphthalene	mg/kg dry wt	ND	02/07/08	EH	0.624		
Toluene	mg/kg dry wt	ND	02/07/08	EH	0.063		
m/p-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.125		
o-Xylene	mg/kg dry wt	ND	02/07/08	EH	0.063		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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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: 2/12/2008

Lims Bat #: LIMT-13241

Page 1 of 13

QC Batch Number: GC/FID-20282

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B03739	2-Fluorobiphenyl	Surrogate Recovery	102.8	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	100.1	%	40-140
	Chlorooctadecane	Sur. Recovery	58.3	%	40-140
	Terphenyl	Sur. Recovery	64.1	%	40-140
08B03740	2-Fluorobiphenyl	Surrogate Recovery	110.3	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	107.5	%	40-140
	Chlorooctadecane	Sur. Recovery	89.5	%	40-140
	Terphenyl	Sur. Recovery	90.9	%	40-140
08B03741	2-Fluorobiphenyl	Surrogate Recovery	115.3	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	114.1	%	40-140
	Chlorooctadecane	Sur. Recovery	96.7	%	40-140
	Terphenyl	Sur. Recovery	104.0	%	40-140
08B03742	2-Fluorobiphenyl	Surrogate Recovery	108.1	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	105.7	%	40-140
	Chlorooctadecane	Sur. Recovery	71.7	%	40-140
	Terphenyl	Sur. Recovery	72.0	%	40-140
08B03743	2-Fluorobiphenyl	Surrogate Recovery	108.3	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	105.2	%	40-140
	Chlorooctadecane	Sur. Recovery	89.5	%	40-140
	Terphenyl	Sur. Recovery	95.4	%	40-140
BLANK-113154	Naphthalene	Blank	<0.1	mg/kg dry wt	
	Acenaphthene	Blank	<0.1	mg/kg dry wt	
	Acenaphthylene	Blank	<0.1	mg/kg dry wt	
	Anthracene	Blank	<0.1	mg/kg dry wt	
	Benzo(a)anthracene	Blank	<0.1	mg/kg dry wt	
	Benzo(a)pyrene	Blank	<0.1	mg/kg dry wt	
	Benzo(b)fluoranthene	Blank	<0.1	mg/kg dry wt	
	Benzo(g,h,i)perylene	Blank	<0.1	mg/kg dry wt	
	Chrysene	Blank	<0.1	mg/kg dry wt	
	Dibenzo(a,h)anthracene	Blank	<0.1	mg/kg dry wt	
	Fluoranthene	Blank	<0.1	mg/kg dry wt	
	Fluorene	Blank	<0.1	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	Blank	<0.1	mg/kg dry wt	
	2-Methylnaphthalene	Blank	<0.1	mg/kg dry wt	
	Phenanthrene	Blank	<0.1	mg/kg dry wt	
	Pyrene	Blank	<0.1	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.1	mg/kg dry wt	
	n-Nonane	Blank	<0.1	mg/kg dry wt	



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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: 2/12/2008

Lims Bat #: LIMIT-13241

Page 3 of 13

QC Batch Number: GC/FID-20282

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-74598	Benzo(a)anthracene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.8	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.9	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.0	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	101.6	%	40-140
		Lab Fort Blank Range	3.7	units	
		Lab Fort Bl. Av. Rec	99.8	%	
		LFB Duplicate RPD	3.7	%	0-25
	Benzo(a)pyrene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.9	mg/kg dry wt	
		Lab Fort Blk. % Rec.	98.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.1	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	102.3	%	40-140
		Lab Fort Blank Range	4.0	units	
		Lab Fort Bl. Av. Rec	100.3	%	
		LFB Duplicate RPD	4.0	%	0-25
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.8	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.0	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.9	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.6	%	40-140
		Lab Fort Blank Range	3.6	units	
		Lab Fort Bl. Av. Rec	97.8	%	
		LFB Duplicate RPD	3.7	%	0-25
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.9	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	98.6	%	40-140
		Lab Fort Blank Range	3.4	units	
		Lab Fort Bl. Av. Rec	96.9	%	
		LFB Duplicate RPD	3.5	%	0-25
	Chrysene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	5.1	mg/kg dry wt	
		Lab Fort Blk. % Rec.	102.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.2	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	105.9	%	40-140
		Lab Fort Blank Range	3.7	units	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/12/2008

Lims Bat #: LIMT-13241

Page 5 of 13

QC Batch Number: GC/FID-20282

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-74598	2-Methylnaphthalene	Dup Lab Fort Bl %Rec	87.1	%	40-140
		Lab Fort Blank Range	7.0	units	
		Lab Fort Bl. Av. Rec	83.6	%	
		LFB Duplicate RPD	8.4	%	0-25
	Phenanthrene	Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
	Pyrene	Dup Lab Fort Bl. Fnd	4.9	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.0	%	40-140
		Lab Fort Blank Range	3.7	units	
		Lab Fort Bl. Av. Rec	97.1	%	
		LFB Duplicate RPD	3.8	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
	Benzo(k)fluoranthene	Lab Fort Blk. Found	5.0	mg/kg dry wt	
		Lab Fort Blk. % Rec.	101.9	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.2	mg/kg dry wt	
	n-Nonane	Dup Lab Fort Bl %Rec	105.0	%	40-140
		Lab Fort Blank Range	3.1	units	
		Lab Fort Bl. Av. Rec	103.4	%	
		LFB Duplicate RPD	3.0	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
		Lab Fort Blk. Found	4.9	mg/kg dry wt	
	Naphthalene Aliphatic Fraction	Lab Fort Blk. % Rec.	99.2	%	40-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.1	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	102.7	%	40-140
	n-Nonane	Lab Fort Blank Range	3.5	units	
		Lab Fort Bl. Av. Rec	101.0	%	
		LFB Duplicate RPD	3.5	%	0-25
		Lab Fort Blank Amt.	5.0	mg/kg dry wt	
	Naphthalene Aliphatic Fraction	Lab Fort Blk. Found	2.6	mg/kg dry wt	
		Lab Fort Blk. % Rec.	52.6	%	30-140
		Dup Lab Fort Bl Amt.	5.0	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	2.5	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	50.1	%	30-140
		Lab Fort Blank Range	2.4	units	
	Naphthalene Aliphatic Fraction	Lab Fort Bl. Av. Rec	51.4	%	
		LFB Duplicate RPD	4.7	%	
		Lab Fort Blank Amt.	3.7	mg/kg dry wt	
		Lab Fort Blk. Found	0.0	mg/kg dry wt	
	Naphthalene Aliphatic Fraction	Lab Fort Blk. % Rec.	0.0	%	0-5



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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: 2/12/2008

Lims Bat #: LIMIT-13241

Page 7 of 13

QC Batch Number: GC/FID-20295

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B03739	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	107.9	%	70-130
08B03740	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	136.2	%	70-130
08B03741	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	104.2	%	70-130
08B03742	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	106.1	%	70-130
08B03743	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	106.7	%	70-130
BLANK-113219	C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
	Unadjusted C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	Unadjusted C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
LFBLANK-74660	Nonane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	5.181	mg/kg dry wt	
		Lab Fort Blk. % Rec.	77.288	%	30-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.997	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	74.533	%	30-130
		Lab Fort Blank Range	2.754	units	
		Lab Fort Bl. Av. Rec	75.911	%	
		LFB Duplicate RPD	3.628	%	0-25
	Pentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	6.477	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.610	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.795	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.440	%	70-130
		Lab Fort Blank Range	10.169	units	
		Lab Fort Bl. Av. Rec	91.525	%	
		LFB Duplicate RPD	11.111	%	0-25
	2-Methylpentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	7.045	mg/kg dry wt	
		Lab Fort Blk. % Rec.	105.084	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	6.136	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.525	%	70-130
		Lab Fort Blank Range	13.559	units	
		Lab Fort Bl. Av. Rec	98.305	%	
		LFB Duplicate RPD	13.793	%	0-25
	2,2,4-Trimethylpentane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	



39 Spruce Street ° 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: 2/12/2008

Lims Bat #: LIMIT-13241

Page 9 of 13

QC Batch Number: GC/PID-8502

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B03739	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	115.3	%	70-130
08B03740	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	147.7	%	70-130
08B03741	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	115.7	%	70-130
08B03742	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	120.2	%	70-130
08B03743	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	122.6	%	70-130
BLANK-113217	Benzene	Blank	<0.054	mg/kg dry wt	
	Ethylbenzene	Blank	<0.054	mg/kg dry wt	
	Naphthalene	Blank	<0.532	mg/kg dry wt	
	Toluene	Blank	<0.054	mg/kg dry wt	
	o-Xylene	Blank	<0.054	mg/kg dry wt	
	m/p-Xylene	Blank	<0.107	mg/kg dry wt	
	C9-C10 Aromatics	Blank	<10.7	mg/kg dry wt	
	MTBE	Blank	<0.054	mg/kg dry wt	
LFBLANK-74658	Benzene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	6.534	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.457	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	6.079	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	90.677	%	70-130
		Lab Fort Blank Range	6.779	units	
		Lab Fort Bl. Av. Rec	94.067	%	
		LFB Duplicate RPD	7.207	%	0-25
	Ethylbenzene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	6.704	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.000	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	6.363	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	94.915	%	70-130
		Lab Fort Blank Range	5.084	units	
		Lab Fort Bl. Av. Rec	97.457	%	
		LFB Duplicate RPD	5.217	%	0-25
	Naphthalene	Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	7.784	mg/kg dry wt	
		Lab Fort Blk. % Rec.	116.101	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	7.500	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	111.864	%	70-130



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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: 2/12/2008

Lims Bat #: LIMIT-13241

Page 11 of 13

QC Batch Number: GC/PID-8502

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-74658	1,2,4-TrimethylBenzene	Dup Lab Fort Bl. Fnd	6.306	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	94.067	%	70-130
		Lab Fort Blank Range	1.694	units	
		Lab Fort Bl. Av. Rec	93.220	%	
		LFB Duplicate RPD	1.818	%	0-25



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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: 2/12/2008

Lims Bat #: LIMIT-13241

Page 13 of 13

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

Frac. Check Gilson Fractionator (FCS)

Silica Lot: S212-33 Vendor: PHENOMENEX
Frac Check Lot: 011108 PG Amount of DCM collected: 5000 ul
Hexane Lot: 47355 Amount of Hexane collected: 1500 ul
DCM Lot: 47172
Acetone Lot: 47264 Data File: 020108 B062.D

Compound	Conc.(ppm)	1500ul	% REC	Limits
Naphthalene	50	46.029	92%	40-140
2-Methylnaphthalene	50	48.806	98%	40-140
Acenaphthalene	50	50.067	100%	40-140
Acenaphthene	50	52.325	105%	40-140
Fluorene	50	50.082	100%	40-140
Phenanthrene	50	49.935	100%	40-140
Anthracene	50	51.061	102%	40-140
o-Terphenyl (sur)	50	52.471	105%	40-140
Fluoranthene	50	51.070	102%	40-140
Pyrene	50	52.993	106%	40-140
Benzo(a)anthracene	50	51.203	102%	40-140
Chrysene	50	53.045	106%	40-140
Benzo(b)fluoranthene	50	50.436	101%	40-140
Benzo(k)fluoranthene	50	51.766	104%	40-140
Benzo(a)pyrene	50	51.678	103%	40-140
Indeno(123cd)pyrene	50	47.797	96%	40-140
Dibenzo(ah)anthracene	50	51.757	104%	40-140
Benzo(ghi)perylene	50	50.155	100%	40-140
C9	50	47.505	95%	30-140
C10	50	50.134	100%	40-140
C12	50	54.171	108%	40-140
C14	50	52.255	105%	40-140
C16	50	53.732	107%	40-140
C18	50	53.970	108%	40-140
C19	50	54.543	109%	40-140
C20	50	55.285	111%	40-140
1-Chlorooctadecane (sur)	50	46.778	94%	40-140
C22	50	53.469	107%	40-140
C24	50	56.401	113%	40-140
C26	50	52.973	106%	40-140
C28	50	50.888	102%	40-140
C30	50	51.901	104%	40-140
C36	50	54.194	108%	40-140
Fractionation Surrogates				
2-Fluorobiphenyl	50	47.200	94%	40-140
2-Bromonaphthalene	50	43.735	87%	40-140
Aliphatic Bleed thru			% (<5%)	
Naphthalene	0		0.000	
2-Methylnaphthalene	0		0.000	



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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: Ass. Building Wreckers

RECEIVED BY: KO

DATE: 2/5/08

1. Was chain of custody relinquished and signed?

YES

NO

2. Does Chain agree with samples?

YES

NO

If not, explain:

3. All Samples in good condition?

YES

NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C?

YES

NO

Degrees by temp blank 5°C

5. Are there any dissolved samples for the lab to filter?

YES

NO

Degrees by temp gun _____

Who was notified? _____ Date: _____ Time: _____

6. Are there any on hold samples?

YES

NO

STORED WHERE: _____

7. Are there any short holding time samples and who was notified? _____ Date: _____ Time: _____

8. Location where samples are stored:

1B

CONTAINERS SENT IN TO CON-TEST	# of container
1 liter amber	
500 ml amber	
250 ml amber (8oz. Amber)	1
1 liter plastic	
500 ml plastic	
250 ml plastic	
40 ml vial—which kind—list below	5
Colisure bottle	
Dissolved oxygen bottle	
Flashpoint bottle	

CONTAINERS SENT TO CON-TEST	# of containers
Air Cassettes	
8 oz clear jar	
4 oz clear jar	
2 oz clear jar	
Plastic bag	
Encore	
Brass Sleeves	
Tubes	
Summa cans	
Other	* 4

Laboratory comments:

* 4 - 125 ml Ambers

of HCL Vial _____ # of Methanol vials 5 # of Sodium Bisulfate vials _____

of DI water(to be frozen) vials _____ Time and Date when frozen _____

Do all the samples have the correct pH levels? YES NO If no, please explain above



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REPORT DATE 2/20/2008

ASSOCIATED BUILDING WRECKERS

352 ALBANY STREET

SPRINGFIELD, MA 01106

ATTN: FRED VANDERHOOF

CONTRACT NUMBER:

PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-13447

JOB NUMBER: 2070222A

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

Comments :

LIMS BATCH NO. : LIMIT-13447

CASE NARRATIVE SUMMARY

IN VPH METHOD, LABORATORY FORTIFIED BLANK AND LABORATORY FORTIFIED BLANK DUPLICATE RECOVERIES WERE OUTSIDE CONTROL LIMITS FOR 2,2,4-TRIMETHYLPENTANE. LOW BIAS ANTICIPATED FOR ANY REPORTED RESULT IN THE C5-C8 RANGE.

IN VPH METHOD, MATRIX SPIKE RECOVERY IS OUTSIDE CONTROL LIMITS FOR 2,2,4-TRIMETHYLBENZENE. LOW BIAS ANTICIPATED FOR ANY REPORTED RESULT FOR C5-C8 RANGE.

THERE ARE NO OTHER ANALYTICAL ISSUES THAT AFFECT THE USABILITY OF THE DATA.

DETAILED CASE NARRATIVE

VOLATILE PETROLEUM HYDROCARBONS (VPH) MADEP-VPH-04-1.1

RECOMMENDED SAMPLE HOLDING TIMES WERE NOT EXCEEDED FOR ALL SAMPLES ANALYZED BY THE VPH METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL VPH SAMPLES WERE RECEIVED PRESERVED PROPERLY (WATER SAMPLES pH <2; SOIL SAMPLES IN METHANOL WITH A SOIL/METHANOL RATIO OF 1:1 +/- 25% COMPLETELY COVERED BY METHANOL) IN THE PROPER CONTAINERS AT 4° C. +/- 2° AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS SPECIFIED BELOW: ALL PROPERLY PRESERVED

THE VPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW: NO CONTAMINATION NOTED

ALL VPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:
NO DILUTIONS WERE PERFORMED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR THE VPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES, LABORATORY CONTROL SAMPLE DUPLICATE RECOVERIES, AND LCS DUPLICATE RPDs FOR ALL VPH COMPONENT STANDARD COMPOUNDS WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: LABORATORY FORTIFIED BLANK AND LABORATORY FORTIFIED BLANK DUPLICATE RECOVERIES WERE OUTSIDE CONTROL LIMITS FOR 2,2,4-TRIMETHYLPENTANE. LOW BIAS ANTICIPATED FOR ANY REPORTED RESULT IN THE C5-C8 RANGE.

ALL VPH SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

VPH MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES, SAMPLE DUPLICATE RPDs AND MSDRPD, IF REQUESTED IN THIS BATCH WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: A MATRIX SPIKE WAS PERFORMED ON SAMPLE 08B04629. MATRIX SPIKE RECOVERY IS OUTSIDE CONTROL LIMITS FOR MTBE. DATA VALIDATION IS NOT AFFECTED SINCE SAMPLE RESULT IS "NOT DETECTED" AND RECOVERY BIAS IS ON THE HIGH SIDE FOR THIS COMPOUND. MATRIX SPIKE RECOVERY IS OUTSIDE CONTROL LIMITS FOR N-DECANE AND N-BUTYLCYCLOHEXANE. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE



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REPORT DATE 2/20/2008

ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106
ATTN: FRED VANDERHOOF

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 2070222

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-13447

JOB NUMBER: 2070222A

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

CONNECTICUT PH-0567
NEW YORK ELAP/NELAP 10899

VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

FLORIDA DOH E871027 (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 2/20/08

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

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



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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/20/2008

Page 2 of 15

Project Location: SPRINGFIELD MA, CHAPMAN
Date Received: 2/13/2008

LIMS-BAT #: LIMIT-13447

Job Number: 2070222A

Field Sample #: DUP-1

Analytical Method:
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/20/2008

Page 4 of 15

Project Location: SPRINGFIELD MA, CHAPMAN

Date Received: 2/13/2008

LIMS-BAT #: LIMIT-13447

Job Number: 2070222A

Field Sample #: EAST SIDE WALL

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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Purchase Order No.: 2070222

2/20/2008

Page 6 of 15

Project Location: SPRINGFIELD MA, CHAPMAN

Date Received: 2/13/2008

LIMS-BAT #: LIMIT-13447

Job Number: 2070222A

Field Sample #: PIT BOTTOM

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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Purchase Order No.: 2070222

2/20/2008

Page 8 of 15

Project Location: SPRINGFIELD MA, CHAPMAN

Date Received: 2/13/2008

LIMS-BAT #: LIMT-13447

Job Number: 2070222A

Field Sample #: WEST SIDE WALL

Analytical Method:

MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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



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352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/20/2008

Page 10 of 15

Project Location: SPRINGFIELD MA, CHAPMAN

Date Received: 2/13/2008

Field Sample #: DUP-1

Sample ID : 08B04630

Sampled : 2/13/2008
NOT SPECIFIED

LIMS-BAT #: LIMIT-13447

Job Number: 2070222A

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	22.0			
C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	22.0			
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	14.7			
C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	14.7			
C9-C10 Aromatics	mg/kg dry wt	ND	02/15/08	EH	14.7			
Benzene	mg/kg dry wt	ND	02/15/08	EH	0.074			
Ethylbenzene	mg/kg dry wt	ND	02/15/08	EH	0.074			
MTBE	mg/kg dry wt	ND	02/15/08	EH	0.074			
Naphthalene	mg/kg dry wt	ND	02/15/08	EH	0.733			
Toluene	mg/kg dry wt	ND	02/15/08	EH	0.074			
m/p-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.147			
o-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.074			

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/20/2008
Page 12 of 15

Project Location: SPRINGFIELD MA, CHAPMAN

Date Received: 2/13/2008

Field Sample #: PIT BOTTOM

Sample ID : 08B04628

Sampled : 2/13/2008
NOT SPECIFIED

LIMS-BAT #: LIMIT-13447
Job Number: 2070222A

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P / F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	22.3		
C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	22.3		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	14.9		
C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	14.9		
C9-C10 Aromatics	mg/kg dry wt	ND	02/15/08	EH	14.9		
Benzene	mg/kg dry wt	ND	02/15/08	EH	0.075		
Ethylbenzene	mg/kg dry wt	ND	02/15/08	EH	0.075		
MTBE	mg/kg dry wt	ND	02/15/08	EH	0.075		
Naphthalene	mg/kg dry wt	ND	02/15/08	EH	0.741		
Toluene	mg/kg dry wt	ND	02/15/08	EH	0.075		
m/p-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.149		
o-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.075		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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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FRED VANDERHOOF
ASSOCIATED BUILDING WRECKERS
352 ALBANY STREET
SPRINGFIELD, MA 01106

Purchase Order No.: 2070222

2/20/2008
Page 14 of 15

Project Location: SPRINGFIELD MA, CHAPMAN
Date Received: 2/13/2008

LIMS-BAT #: LIMT-13447
Job Number: 2070222A

Field Sample #: WEST SIDE WALL

Sample ID : *08B04629

Sampled : 2/13/2008
NOT SPECIFIED

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Unadjusted C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	18.7		
C5-C8 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	18.7		
Unadjusted C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	12.5		
C9-C12 Aliphatics	mg/kg dry wt	ND	02/15/08	EH	12.5		
C9-C10 Aromatics	mg/kg dry wt	ND	02/15/08	EH	12.5		
Benzene	mg/kg dry wt	ND	02/15/08	EH	0.063		
Ethylbenzene	mg/kg dry wt	ND	02/15/08	EH	0.063		
MTBE	mg/kg dry wt	ND	02/15/08	EH	0.063		
Naphthalene	mg/kg dry wt	ND	02/15/08	EH	0.621		
Toluene	mg/kg dry wt	ND	02/15/08	EH	0.063		
m/p-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.125		
o-Xylene	mg/kg dry wt	ND	02/15/08	EH	0.063		

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

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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: 2/20/2008

Lims Bat #: LIMIT-13447

Page 1 of 19

QC Batch Number: GC/FID-20380

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B04627	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	88.7	%	70-130
08B04628	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	93.3	%	70-130
08B04629	Nonane	Sample Amount	<0.063	mg/kg dry wt	30-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	5.060	mg/kg dry wt	
		Matrix Spike % Rec.	69.067	%	
	Pentane	Sample Amount	<0.063	mg/kg dry wt	70-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	5.855	mg/kg dry wt	
		Matrix Spike % Rec.	79.915	%	
	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	90.1	%	70-130
	2-Methylpentane	Sample Amount	<0.063	mg/kg dry wt	70-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	6.333	mg/kg dry wt	
		Matrix Spike % Rec.	86.440	%	
	2,2,4-Trimethylpentane	Sample Amount	<0.063	mg/kg dry wt	70-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	4.806	mg/kg dry wt	
		Matrix Spike % Rec.	65.593	%	
	n-Decane	Sample Amount	<0.063	mg/kg dry wt	70-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	5.004	mg/kg dry wt	
		Matrix Spike % Rec.	68.305	%	
	n-Butylcyclohexane	Sample Amount	<0.063	mg/kg dry wt	70-130
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	5.042	mg/kg dry wt	
		Matrix Spike % Rec.	68.813	%	
08B04630	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	91.3	%	70-130
08B04631	2,5-Dibromotoluene (FID)	Sur. Recovery FID/MS	83.3	%	70-130
BLANK-113547	C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
	Unadjusted C5-C8 Aliphatics	Blank	<16.0	mg/kg dry wt	
	Unadjusted C9-C12 Aliphatics	Blank	<10.7	mg/kg dry wt	
LFBLANK-75005	Nonane	Lab Fort Blank Amt.	6.704	mg/kg dry wt	30-130
		Lab Fort Blk. Found	5.102	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.101	%	
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	



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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: 2/20/2008

Lims Bat # : LIMT-13447

Page 3 of 19

QC Batch Number: GC/FID-20380

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-75005	n-Butylcyclohexane	Lab Fort Blk. % Rec.	73.644	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	4.732	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.593	%	70-130
		Lab Fort Blank Range	3.050	units	
		Lab Fort Bl. Av. Rec	72.118	%	
		LFB Duplicate RPD	4.230	%	0-25



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2008

Lims Bat #: LIMIT-13447

Page 5 of 19

QC Batch Number: GC/FID-20398

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B04629	Anthracene	MSD % Recovery	78.7	%	40-140
		MSD Range	2.0	units	
		MS Duplicate RPD	2.3	%	
	Benzo(a)anthracene	Sample Amount	0.7	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.7	mg/kg dry wt	
		Matrix Spike % Rec.	71.7	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.7	mg/kg dry wt	
		MSD % Recovery	73.1	%	40-140
		MSD Range	1.3	units	
		MS Duplicate RPD	1.5	%	
	Benzo(a)pyrene	Sample Amount	0.6	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.7	mg/kg dry wt	
		Matrix Spike % Rec.	74.2	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.8	mg/kg dry wt	
		MSD % Recovery	75.7	%	40-140
		MSD Range	1.5	units	
		MS Duplicate RPD	1.7	%	
	Benzo(b)fluoranthene	Sample Amount	0.9	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.6	mg/kg dry wt	
		Matrix Spike % Rec.	66.5	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.6	mg/kg dry wt	
		MSD % Recovery	67.6	%	40-140
		MSD Range	1.1	units	
		MS Duplicate RPD	1.3	%	
	Benzo(g,h,i)perylene	Sample Amount	<0.2	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.6	mg/kg dry wt	
		Matrix Spike % Rec.	85.5	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.7	mg/kg dry wt	
		MSD % Recovery	86.9	%	40-140
		MSD Range	1.3	units	
		MS Duplicate RPD	1.5	%	
	Chrysene	Sample Amount	0.8	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.8	mg/kg dry wt	
		Matrix Spike % Rec.	73.4	%	40-140



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2008

Lims Bat #: LIMT-13447

Page 7 of 19

QC Batch Number: GC/FID-20398

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B04629	2-Methylnaphthalene	MS Amt Measured	3.9	mg/kg dry wt	
		Matrix Spike % Rec.	72.6	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.1	mg/kg dry wt	
		MSD % Recovery	75.2	%	40-140
		MSD Range	2.6	units	
		MS Duplicate RPD	3.5	%	
	Phenanthrene	Sample Amount	1.8	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.5	mg/kg dry wt	
		Matrix Spike % Rec.	49.7	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.6	mg/kg dry wt	
		MSD % Recovery	51.6	%	40-140
	Pyrene	MSD Range	1.8	units	
		MS Duplicate RPD	2.1	%	
		Sample Amount	1.7	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.8	mg/kg dry wt	
		Matrix Spike % Rec.	56.4	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
	Benzo(k)fluoranthene	MSD Amt Measured	4.9	mg/kg dry wt	
		MSD % Recovery	57.9	%	40-140
		MSD Range	1.5	units	
		MS Duplicate RPD	1.7	%	
		Sample Amount	0.3	mg/kg dry wt	
		Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	4.7	mg/kg dry wt	
	2-Fluorobiphenyl	Matrix Spike % Rec.	79.6	%	40-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	4.8	mg/kg dry wt	
		MSD % Recovery	81.2	%	40-140
		MSD Range	1.6	units	
		MS Duplicate RPD	1.8	%	
		Surrogate Recovery	97.2	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	92.3	%	40-140
		Sample Amount	<0.2	mg/kg dry wt	
	n-Nonane	Matrix Spk Amt Added	5.4	mg/kg dry wt	
		MS Amt Measured	2.4	mg/kg dry wt	
		Matrix Spike % Rec.	44.0	%	30-140
		MSD Amount Added	5.4	mg/kg dry wt	
		MSD Amt Measured	2.4	mg/kg dry wt	
		MSD % Recovery	44.8	%	30-140



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QC SUMMARY REPORT

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2008

Lims Bat #: LIMIT-13447

Page 15 of 19

QC Batch Number: GC/PID-8522

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B04627	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	103.5	%	70-130
08B04628	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	108.8	%	70-130
08B04629	Benzene	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	7.141	mg/kg dry wt	
		Matrix Spike % Rec.	97.457	%	70-130
	Ethylbenzene	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	7.451	mg/kg dry wt	
		Matrix Spike % Rec.	101.694	%	70-130
	Naphthalene	Sample Amount	<0.621	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	8.507	mg/kg dry wt	
		Matrix Spike % Rec.	116.101	%	70-130
	Toluene	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	7.389	mg/kg dry wt	
		Matrix Spike % Rec.	100.847	%	70-130
	o-Xylene	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	7.699	mg/kg dry wt	
		Matrix Spike % Rec.	105.084	%	70-130
	m/p-Xylene	Sample Amount	<0.125	mg/kg dry wt	
		Matrix Spk Amt Added	14.654	mg/kg dry wt	
		MS Amt Measured	14.716	mg/kg dry wt	
		Matrix Spike % Rec.	100.423	%	70-130
	MTBE	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	10.928	mg/kg dry wt	
		Matrix Spike % Rec.	149.152	%	70-130
	1,2,4-TrimethylBenzene	Sample Amount	<0.063	mg/kg dry wt	
		Matrix Spk Amt Added	7.327	mg/kg dry wt	
		MS Amt Measured	7.078	mg/kg dry wt	
		Matrix Spike % Rec.	96.610	%	70-130
	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	104.4	%	70-130
08B04630	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	108.2	%	70-130
08B04631	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	98.4	%	70-130
BLANK-113544	Benzene	Blank	<0.054	mg/kg dry wt	



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2008

Lims Bat #: LIMIT-13447

Page 17 of 19

QC Batch Number: GC/PID-8522

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-75002	Toluene o-Xylene	LFB Duplicate RPD	12.173	%	0-25
		Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	7.102	mg/kg dry wt	
		Lab Fort Blk. % Rec.	105.932	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	6.363	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	94.915	%	70-130
		Lab Fort Blank Range	11.016	units	
		Lab Fort Bl. Av. Rec	100.423	%	
		LFB Duplicate RPD	10.970	%	0-25
	m/p-Xylene	Lab Fort Blank Amt.	13.409	mg/kg dry wt	
		Lab Fort Blk. Found	13.522	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.847	%	70-130
		Dup Lab Fort Bl Amt.	13.409	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	11.875	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	88.559	%	70-130
		Lab Fort Blank Range	12.288	units	
		Lab Fort Bl. Av. Rec	94.703	%	
		LFB Duplicate RPD	12.975	%	0-25
		Lab Fort Blank Amt.	6.704	mg/kg dry wt	
	MTBE	Lab Fort Blk. Found	5.795	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.440	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.500	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.033	%	70-130
		Lab Fort Blank Range	4.406	units	
		Lab Fort Bl. Av. Rec	84.237	%	
		LFB Duplicate RPD	5.231	%	0-25
		Lab Fort Blank Amt.	6.704	mg/kg dry wt	
		Lab Fort Blk. Found	6.363	mg/kg dry wt	
	1,2,4-TrimethylBenzene	Lab Fort Blk. % Rec.	94.915	%	70-130
		Dup Lab Fort Bl Amt.	6.704	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	5.965	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	88.983	%	70-130
		Lab Fort Blank Range	5.932	units	
		Lab Fort Bl. Av. Rec	91.949	%	
		LFB Duplicate RPD	6.451	%	0-25



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QC SUMMARY REPORT

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2008

Lims Bat #: LIMIT-13447

Page 19 of 19

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

CON-TEST ANALYTICAL LABORATORY
39 Spruce Street
East Longmeadow, MA 01028-0591

GILSON ASPEC XL4-V2
EPH FRACTIONATION

Frac. Check Gilson Fractionator (FCS)

Silica Lot: S212-33 Vendor: PHENOMENEX
Frac Check Lot: 011108 PG Amount of DCM collected: 5000 ul
Hexane Lot: 47355 Amount of Hexane collected: 1500 ul
DCM Lot: 47172
Acetone Lot: 47264 Data File: 020108 B062.D

Compound	Conc.(ppm)	1500ul	% REC	Limits
Naphthalene	50	46.029	92%	40-140
2-Methylnaphthalene	50	48.806	98%	40-140
Acenaphthalene	50	50.067	100%	40-140
Acenaphthene	50	52.325	105%	40-140
Fluorene	50	50.082	100%	40-140
Phenanthrene	50	49.935	100%	40-140
Anthracene	50	51.061	102%	40-140
o-Terphenyl (sum)	50	52.471	105%	40-140
Fluoranthene	50	51.070	102%	40-140
Pyrene	50	52.993	106%	40-140
Benzo(a)anthracene	50	51.203	102%	40-140
Chrysene	50	53.045	106%	40-140
Benzo(b)fluoranthene	50	50.436	101%	40-140
Benzo(k)fluoranthene	50	51.766	104%	40-140
Benzo(a)pyrene	50	51.678	103%	40-140
Indeno(123cd)pyrene	50	47.797	96%	40-140
Dibenzo(ah)anthracene	50	51.757	104%	40-140
Benzo(ghi)perylene	50	50.155	100%	40-140
C9	50	47.505	95%	30-140
C10	50	50.134	100%	40-140
C12	50	54.171	108%	40-140
C14	50	52.255	105%	40-140
C16	50	53.732	107%	40-140
C18	50	53.970	108%	40-140
C19	50	54.543	109%	40-140
C20	50	55.285	111%	40-140
1-Chlorooctadecane (sum)	50	46.778	94%	40-140
C22	50	53.469	107%	40-140
C24	50	56.401	113%	40-140
C26	50	52.973	106%	40-140
C28	50	50.888	102%	40-140
C30	50	51.901	104%	40-140
C36	50	54.194	108%	40-140
Fractionation Surrogates				
2-Fluorobiphenyl	50	47.200	94%	40-140
2-Bromonaphthalene	50	43.735	87%	40-140
Aliphatic Bleed thru			% (<5%)	
Naphthalene	0		0.000	
2-Methylnaphthalene	0		0.000	



www.contestlabs.com

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East Longmeadow, MA
Phone: 1-413-525-2332
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SAMPLE RECEIPT CHECKLIST

CLIENT NAME: Ass. Building Wreckers

RECEIVED BY: KO

DATE: 2/13/08

1. Was chain of custody relinquished and signed? YES NO

2. Does Chain agree with samples? YES NO

If not, explain: _____

3. All Samples in good condition? YES NO

If not, explain: _____

4. Were samples received in compliance with
Temperature 0-6 degrees C? YES NO

5. Are there any dissolved samples for the lab to filter? YES NO

Degrees by temp
blank 6°C
Degrees by temp
gun _____

Who was notified? _____ Date: _____ Time: _____

6. Are there any on hold samples? YES NO

STORED WHERE: _____

7. Are there any short holding time samples and who was notified? _____ Date: _____ Time: _____

8. Location where samples are stored: LC

CONTAINERS SENT IN TO CON-TEST	# of container
1 liter amber	
500 ml amber	
250 ml amber (8oz. Amber)	<u>5</u>
1 liter plastic	
500 ml plastic	
250 ml plastic	
40 ml vial—which kind—list below	<u>6</u>
Colisure bottle	
Dissolved oxygen bottle	
Flashpoint bottle	

CONTAINERS SENT TO CON-TEST	# of containers
Air Cassettes	
8 oz clear jar	
4 oz clear jar	
2 oz clear jar	
Plastic bag	
Encore	
Brass Sleeves	
Tubes	
Summa cans	
Other	

Laboratory comments: _____

of HCL Vial _____ # of Methanol vials 6 # of Sodium Bisulfate vials _____

of DI water(to be frozen) vials _____ Time and Date when frozen _____

Do all the samples have the correct pH levels? YES NO If no, please explain above

