



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

APR 29 2013

Doug Murray, Construction Manager
Gershman Brown Crowley, Inc.
14 Breakneck Hill, Suite 101
Lincoln, RI 02865

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Proposed CVS Pharmacy / Store, site located at 984 Worcester Street,
Wellesley, MA 02482, Norfolk County; Authorization # MAG910574

Dear Mr. Murray:

Based on the review of a Notice of Intent (NOI) submitted on behalf of CVS Caremark Corporation (VS) and Gershman Brown Crowley, Inc., by the firm Ransom Consulting Engineers and Scientists, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Owner and Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: <http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the enclosed checklist includes parameters you have marked "Believed Present."

Also, please note that because the metals information submitted with the NOI is for dissolved (filtered) metals rather than the required total metals limitations. EPA has opted, in the mean time, to select all the metals required in the NOI for monitoring. The Owner or Operator is required to monitor all pollutants for the initial six months of permit coverage. And after that time, the owner or operator may request deletion of the metals not detected or not present in the **influent** at levels below the total recoverable

metal limitations (TRL) established in the NOI, in order for this office to establish the appropriate monitoring list for this site.

Also, please note that total metals are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. For each parameter the dilution factor 8.78 for this site is within a dilution range greater than five to ten (>5-10), established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for antimony of 30 ug/L, arsenic of 50 ug/L, Cadmium of 1 ug/L, trivalent chromium 244 ug/L, copper of 26 ug/L, lead of 6.5 ug/L, nickel of 145 ug/L, selenium of 25 ug/L, silver of 6 ug/L, zinc of 333 ug/L and iron of 5,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on May 1, 2014. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



Thelma Murphy, Manager
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
David H.T. Donohue, DPW
Aaron Martin, Ransom Consulting, Inc.

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Authorization Number:	MAG910574
Authorization Issued:	April, 2013
Facility/Site Name:	Proposed CVS Pharmacy / Store
Facility/Site Address:	984 Worcester Street, Wellesley, MA 02482
	Email address of owner: KEHOE Chrysler, Inc. & Kehoe Worcester Road, Limited Partnership
Legal Name of Operator:	Gershman Brown Crowley, Inc.
Operator contact name, title, and Address:	Doug Murray, Construction Manager
	Email: dmurray@gershmanbrowncrow.com
Estimated date of The Project Completion:	May1, 2014
Category and Sub-Category:	Category 1- Contaminated Construction Dewatering. Sub-category A and B: General Urban Fill Sites and Known Contaminated Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Bogle Brook

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#160.2/ML5ug/L
	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
✓	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
✓	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
✓	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
✓	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
✓	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
✓	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
✓	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
✓	h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	p. Pyrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8, 9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) ^{11/12}</u>	<u>Minimum level=ML</u>
✓	39. Antimony	Freshwater 30/ML 10	
✓	40. Arsenic **	50/ML 20	

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l)^{11/12}</u>		<u>Minimum level=ML</u>	
		<u>Freshwater</u>			
✓	41. Cadmium **	1/ML10			
✓	42. Chromium III (trivalent) **	244/ML15			
	43. Chromium VI (hexavalent) **	57/ML10			
✓	44. Copper **	26/ML15			
✓	45. Lead **	6.5/ML20			
✓	46. Mercury **	2.3/ML0.2			
✓	47. Nickel **	145/ML20			
✓	48. Selenium **	25/ML20			
✓	49. Silver	6/ML10			
✓	50. Zinc **	333/ML15			
✓	51. Iron	5,000/ML 20			

	<u>Other Parameters</u>	<u>Limit</u>
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
✓	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹³
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹⁴
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹⁴
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹⁴
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹⁴
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹⁴
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹⁴
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹⁴
	64. Maximum Change in Temperature in MA -Any Class SB water body - October to June	4°F; 1/Month/Grab ¹⁴

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹ Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General facility/site information. Please provide the following information about the site:

a) Name of facility/site :		Facility/site mailing address:	
Location of facility/site : longitude: _____ latitude: _____	Facility SIC code(s):	Street:	
b) Name of facility/site owner :		Town:	
Email address of facility/site owner:	State:	Zip:	County:
Telephone no. of facility/site owner :			
Fax no. of facility/site owner :	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. Other ____ if so, describe:		
Address of owner (if different from site):			
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator :	Operator telephone no:		
	Operator fax no.:		Operator email:
Operator contact name and title:			
Address of operator (if different from owner):	Street:		
Town:	State:	Zip:	County:

d) Check Y for “yes” or N for “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Y___ N___, if Y, number:_____ 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Y___ N___, if Y, date and tracking #:_____ 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Y___ N___ 4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y___ N___	
e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y___ N___ If Y, please list: 1. site identification # assigned by the state of NH or MA: _____ 2. permit or license # assigned: _____ 3. state agency contact information: name, location, and telephone number: _____	f) Is the site/facility covered by any other EPA permit, including: 1. Multi-Sector General Permit? Y___ N___, if Y, number: _____ 2. Final Dewatering General Permit? Y___ N___, if Y, number: _____ 3. EPA Construction General Permit? Y___ N___, if Y, number: _____ 4. Individual NPDES permit? Y___ N___, if Y, number: _____ 5. any other water quality related individual or general permit? Y___ N___, if Y, number: _____
g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y___ N___	
h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.	
<u>Activity Category</u>	<u>Activity Sub-Category</u>
I - Petroleum Related Site Remediation	A. Gasoline Only Sites _____ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) _____ C. Petroleum Sites with Additional Contamination _____
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites _____ B. VOC Sites with Additional Contamination _____ C. Primarily Heavy Metal Sites _____
III - Contaminated Construction Dewatering	A. General Urban Fill Sites _____ B. Known Contaminated Sites _____

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ____ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ____ C. Hydrostatic Testing of Pipelines and Tanks ____ D. Long-Term Remediation of Contaminated Sumps and Dikes ____ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ____
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
b) Provide the following information about each discharge:	
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow _____ Is maximum flow a design value ? Y ____ N ____ Average flow (include units) _____ Is average flow a design value or estimate? _____
3) Latitude and longitude of each discharge within 100 feet: pt.1: lat. _____ long. _____; pt.2: lat. _____ long. _____; pt.3: lat. _____ long. _____; pt.4: lat. _____ long. _____; pt.5: lat. _____ long. _____; pt.6: lat. _____ long. _____; pt.7: lat. _____ long. _____; pt.8: lat. _____ long. _____; etc.	
4) If hydrostatic testing, total volume of the discharge (gals): _____	5) Is the discharge intermittent ____ or seasonal ____? Is discharge ongoing? Y ____ N ____
c) Expected dates of discharge (mm/dd/yy): start _____ end _____	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)											
2. Total Residual Chlorine (TRC)											
3. Total Petroleum Hydrocarbons (TPH)											
4. Cyanide (CN)	57125										
5. Benzene (B)	71432										
6. Toluene (T)	108883										
7. Ethylbenzene (E)	100414										
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207										
9. Total BTEX ²	n/a										
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934										
11. Methyl-tert-Butyl Ether (MtBE)	1634044										
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650										

* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

² BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

³ EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508										
14. Naphthalene	91203										
15. Carbon Tetrachloride	56235										
16. 1,2 Dichlorobenzene (o-DCB)	95501										
17. 1,3 Dichlorobenzene (m-DCB)	541731										
18. 1,4 Dichlorobenzene (p-DCB)	106467										
18a. Total dichlorobenzene											
19. 1,1 Dichloroethane (DCA)	75343										
20. 1,2 Dichloroethane (DCA)	107062										
21. 1,1 Dichloroethene (DCE)	75354										
22. cis-1,2 Dichloroethene (DCE)	156592										
23. Methylene Chloride	75092										
24. Tetrachloroethene (PCE)	127184										
25. 1,1,1 Trichloro-ethane (TCA)	71556										
26. 1,1,2 Trichloro-ethane (TCA)	79005										
27. Trichloroethene (TCE)	79016										

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014										
29. Acetone	67641										
30. 1,4 Dioxane	123911										
31. Total Phenols	108952										
32. Pentachlorophenol (PCP)	87865										
33. Total Phthalates (Phthalate esters) ⁴											
34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	117817										
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)											
a. Benzo(a) Anthracene	56553										
b. Benzo(a) Pyrene	50328										
c. Benzo(b)Fluoranthene	205992										
d. Benzo(k)Fluoranthene	207089										
e. Chrysene	21801										
f. Dibenzo(a,h)anthracene	53703										
g. Indeno(1,2,3-cd) Pyrene	193395										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)											

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329										
i. Acenaphthylene	208968										
j. Anthracene	120127										
k. Benzo(ghi) Perylene	191242										
l. Fluoranthene	206440										
m. Fluorene	86737										
n. Naphthalene	91203										
o. Phenanthrene	85018										
p. Pyrene	129000										
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.										
38. Chloride	16887006										
39. Antimony	7440360										
40. Arsenic	7440382										
41. Cadmium	7440439										
42. Chromium III (trivalent)	16065831										
43. Chromium VI (hexavalent)	18540299										
44. Copper	7440508										
45. Lead	7439921										
46. Mercury	7439976										
47. Nickel	7440020										
48. Selenium	7782492										
49. Silver	7440224										
50. Zinc	7440666										
51. Iron	7439896										
Other (describe):											

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

<i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y____ N____	If yes, which metals?
<i>Step 2:</i> For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal:_____DF:_____ Metal:_____DF:_____ Metal:_____DF:_____ Metal:_____DF:_____ Etc.	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y____ N____ If Y, list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	De-chlorination	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:

Average flow rate of discharge _____ gpm Maximum flow rate of treatment system _____ gpm

Design flow rate of treatment system _____ gpm

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct to receiving water _____	Within facility (sewer) _____	Storm drain _____	Wetlands _____	Other (describe): _____
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:					
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.					
d) Provide the state water quality classification of the receiving water _____					
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ cfs Please attach any calculation sheets used to support stream flow and dilution calculations.					
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y____ N____ If yes, for which pollutant(s)? _____					
Is there a final TMDL? Y____ N____ If yes, for which pollutant(s)? _____					

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

- a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?
A ____ B ____ C ____ D ____ E ____ F ____
- b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ____ N ____ Underway ____
- c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y ____ N ____
- d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.
- e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?
1 ____ 2 ____ 3 ____
- f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

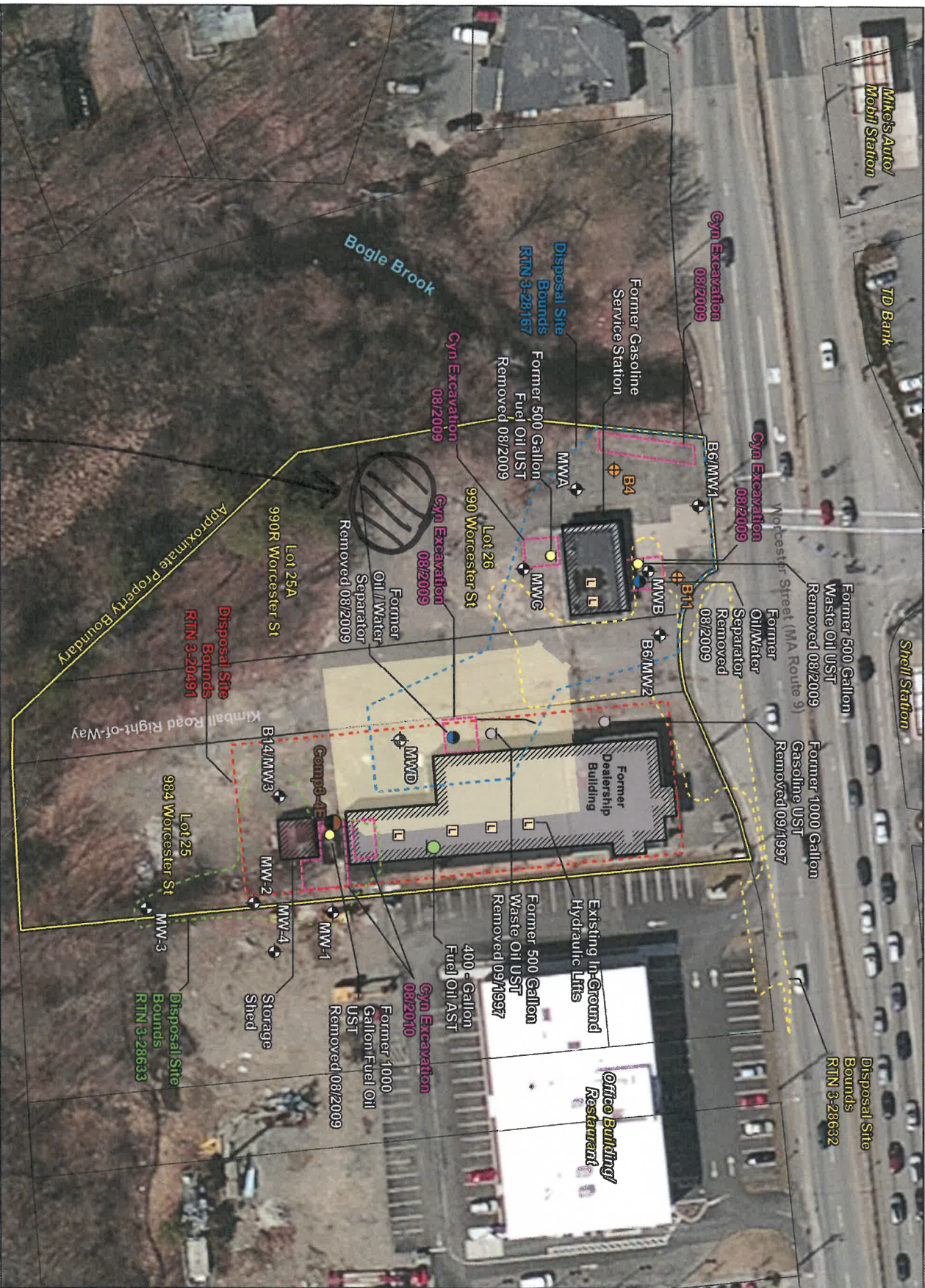
7. Supplemental information.

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name:	Proposed CVS Pharmacy/Store
Operator signature:	
Printed Name & Title:	Doug Murray/Construction Manager
Date:	4/9/13



Proposed Location
for Denaturing Treatment System

RANSOM
Consulting
Engineers
and Scientists

Legend

- Site Boundary
- Excavation Site
- Proposed CVS Building
- Disposal Site RTN 3-20491
- Disposal Site RTN 3-28633
- Disposal Site RTN 3-28167
- Disposal Site RTN 3-28632
- AST
- Former UST
- Hydraulic Lift
- Former Oil / Water Separator
- Monitoring Well
- Soil Sample
- Soil Boring

Notes

1. Site Plan based on Bing Orthophotography
2. Some features are approximate in location and scale
3. This plan has been prepared for the Department of Environmental Protection, Inc. All other uses are not authorized unless written permission is obtained from RANSOM Consulting, Inc.

Scale and Orientation

0 25 50
1 inch = 50 feet

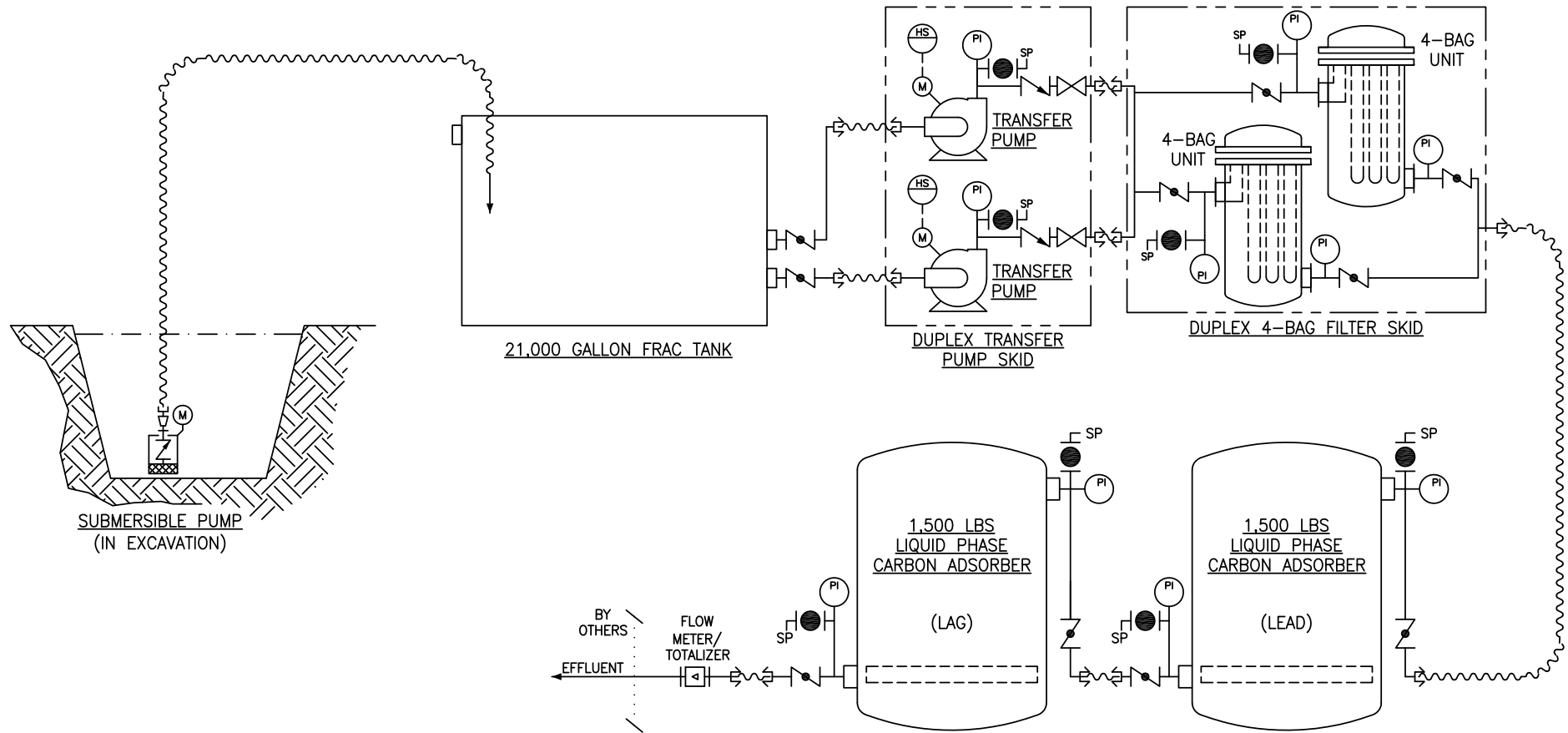
Prepared For
Garshman Brown Crowley, Inc.
14 Breakneck Road, Suite 101
Lincoln, RI

Site Address
Proposed CVS Store No. 1254
984, 990, 990R Worcester Street
Wellesley, Massachusetts

08/1/2017 **Apr 2013**

Figure 2
Site Plan

© RANSOM CONSULTING ENGINEERS AND SCIENTISTS 2013

**LEGEND**

—	PROCESS PIPING	○	LEVEL FLOAT
~~~~~	FLEXIBLE HOSE	Ⓜ	MOTOR
→	FLOW DIRECTION	⏏	FLOW METER
—/—	PIPE CROSS OVER		
●	BALL VALVE (NORMALLY CLOSE)	LAHH	LEVEL ALARM HIGH HIGH
⊘	BUTTERFLY VALVE	LSH	LEVEL SWITCH HIGH
⌞	CHECK VALVE	LSHH	LEVEL SWITCH HIGH HIGH
⊗	GATE VALVE (OPEN)	LSL	LEVEL SWITCH LOW
SP	SAMPLE PORT	HS	HAND OPERATED SWITCH
⌚	CAM LOCK COUPLING		
PI	PRESSURE GAUGE		

THIS DRAWING IS THE PROPERTY OF GROUND/WATER TREATMENT &amp; TECHNOLOGY, INC.

**NOTES:**

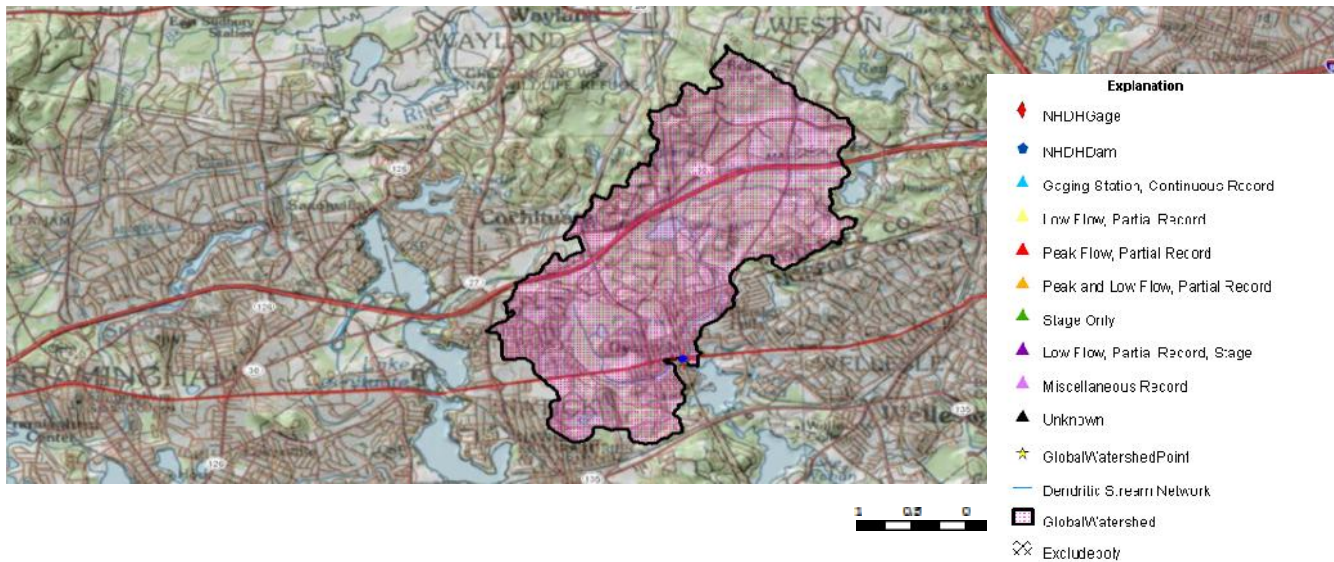
- 1) NOT ALL VALVES, INSTRUMENTATION AND PIPING, ETC. SHOWN FOR CLARITY
- 2) GENERATOR BY OTHERS

A	PRELIMINARY DESIGN FOR REVIEW		04/08/13
NO.	REVISIONS		DATE
CVS – WELLESLEY, MA			
PROPOSED TEMPORARY TREATMENT SYSTEM			
SCALE: NTS		APPROVED BY: MD	DRAWN BY: RS
DATE: 04/08/13			
 <b>GROUND/WATER TREATMENT &amp; TECHNOLOGY</b> P.O. BOX 1174 DENVER, NJ 07834			
DWG SIZE: A	SHEET: 1 OF 1	DRAWING NUMBER: UNASSIGNED	A





### Bogle Brook Watershed



4/5/2013 8:15:52 AM



## Streamstats Ungaged Site Report

Date: Fri Apr 5 2013 08:17:37 Mountain Daylight Time

Site Location: Massachusetts

NAD27 Latitude: 42.3040 (42 18 15)

NAD27 Longitude: -71.3260 (-71 19 34)

NAD83 Latitude: 42.3041 (42 18 15)

NAD83 Longitude: -71.3255 (-71 19 32)

ReachCode: 01090001000646

Measure: 0.37

Drainage Area: 7.16 mi2

Low Flows Basin Characteristics			
100% Statewide Low Flow (7.16 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	7.16	1.61	149
Mean Basin Slope from 250K DEM (percent)	1.91	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.27	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Probability of Perennial Flow Basin Characteristics			
100% Perennial Flow Probability (7.16 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	7.16 (above max value 1.99)	0.01	1.99
Percent Underlain By Sand And Gravel (percent)	58.20	0	100
Percent Forest (percent)	21.40	0	100
Massachusetts Region (dimensionless)	0	0	1

*Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.*

Low Flows Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	7.11	18		3.81	13.2
D60	5.33	20		2.35	12
D70	3.5	24		1.65	7.36
D75	2.78	26		1.32	5.77
D80	2.32	28		1.12	4.73
D85	1.72	32		0.77	3.75
D90	1.34	37		0.58	3.01
D95	0.77	46		0.29	1.99
D98	0.5	60		0.16	1.46
D99	0.37	65		0.11	1.15
M7D2Y	0.81	50		0.3	2.12
AUGD50	1.87	33		0.82	4.18
M7D10Y	0.35	71		0.0991	1.12

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi2, as errors beyond for basins beyond these bounds are unknown.

Probability of Perennial Flow Statistics		
Statistic	Value	Standard Error (percent)
PROBPEREN	0.99	



## ANALYTICAL REPORT

Lab Number:	L1305204
Client:	Ransom Environmental 12 Kent Way Suite 100 Byfield, MA 01922-1221
ATTN:	Aaron Martin
Phone:	(978) 465-1822
Project Name:	CVS STORE 1254
Project Number:	081.06017
Report Date:	04/04/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1305204-01	INFLUENT-W1-032813	WELLESLEY, MA	03/28/13 11:15



**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

### Case Narrative (continued)

#### Sample Receipt

The sample was field filtered for Dissolved Metals.

#### Dissolved Metals

The WG598757-4 MS recovery, performed on L1305204-01, is above the acceptance criteria for Mercury (131%). A post digestion spike was performed with an acceptable recovery of 115%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cynthia McQueen

Title: Technical Director/Representative

Date: 04/04/13

# ORGANICS

# VOLATILES



**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

**Lab ID:** L1305204-01  
**Client ID:** INFLUENT-W1-032813  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 04/02/13 11:00  
**Analyst:** PD

**Date Collected:** 03/28/13 11:15  
**Date Received:** 03/28/13  
**Field Prep:** See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

Lab ID: L1305204-01  
 Client ID: INFLUENT-W1-032813  
 Sample Location: WELLESLEY, MA

Date Collected: 03/28/13 11:15  
 Date Received: 03/28/13  
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1

**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

Lab ID: L1305204-01  
 Client ID: INFLUENT-W1-032813  
 Sample Location: WELLESLEY, MA

Date Collected: 03/28/13 11:15  
 Date Received: 03/28/13  
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1
Tert-Butyl Alcohol	ND		ug/l	10	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/02/13 10:35  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG599004-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/02/13 10:35

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG599004-3					
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--



Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 04/02/13 10:35  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG599004-3					
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG599004-1 WG599004-2								
Methylene chloride	95		90		70-130	5		20
1,1-Dichloroethane	100		95		70-130	5		20
Chloroform	102		97		70-130	5		20
Carbon tetrachloride	103		98		63-132	5		20
1,2-Dichloropropane	100		96		70-130	4		20
Dibromochloromethane	102		102		63-130	0		20
1,1,2-Trichloroethane	102		102		70-130	0		20
Tetrachloroethene	107		103		70-130	4		20
Chlorobenzene	103		100		75-130	3		25
Trichlorofluoromethane	106		100		62-150	6		20
1,2-Dichloroethane	101		96		70-130	5		20
1,1,1-Trichloroethane	102		96		67-130	6		20
Bromodichloromethane	102		97		67-130	5		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		95		70-130	5		20
1,1-Dichloropropene	99		94		70-130	5		20
Bromoform	92		95		54-136	3		20
1,1,2,2-Tetrachloroethane	96		98		67-130	2		20
Benzene	100		95		70-130	5		25
Toluene	101		100		70-130	1		25
Ethylbenzene	102		99		70-130	3		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG599004-1 WG599004-2								
Chloromethane	98		93		64-130	5		20
Bromomethane	86		90		39-139	5		20
Vinyl chloride	100		94		55-140	6		20
Chloroethane	110		106		55-138	4		20
1,1-Dichloroethene	98		96		61-145	2		25
trans-1,2-Dichloroethene	100		94		70-130	6		20
Trichloroethene	100		95		70-130	5		25
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	99		101		70-130	2		20
Methyl tert butyl ether	94		91		63-130	3		20
p/m-Xylene	103		100		70-130	3		20
o-Xylene	104		102		70-130	2		20
cis-1,2-Dichloroethene	100		94		70-130	6		20
Dibromomethane	102		98		70-130	4		20
1,4-Dichlorobutane	95		96		70-130	1		20
1,2,3-Trichloropropane	98		99		64-130	1		20
Styrene	104		102		70-130	2		20
Dichlorodifluoromethane	104		97		36-147	7		20
Acetone	84		94		58-148	11		20
Carbon disulfide	95		90		51-130	5		20

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG599004-1 WG599004-2								
2-Butanone	78		84		63-138	7		20
Vinyl acetate	96		92		70-130	4		20
4-Methyl-2-pentanone	88		88		59-130	0		20
2-Hexanone	86		85		57-130	1		20
Ethyl methacrylate	91		91		70-130	0		20
Acrylonitrile	96		93		70-130	3		20
Bromochloromethane	104		100		70-130	4		20
Tetrahydrofuran	88		91		58-130	3		20
2,2-Dichloropropane	105		99		63-133	6		20
1,2-Dibromoethane	101		98		70-130	3		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	103		102		64-130	1		20
Bromobenzene	99		100		70-130	1		20
n-Butylbenzene	100		99		53-136	1		20
sec-Butylbenzene	98		99		70-130	1		20
tert-Butylbenzene	98		98		70-130	0		20
o-Chlorotoluene	99		100		70-130	1		20
p-Chlorotoluene	98		98		70-130	0		20
1,2-Dibromo-3-chloropropane	74		98		41-144	28	Q	20
Hexachlorobutadiene	100		98		63-130	2		20
Isopropylbenzene	99		98		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG599004-1 WG599004-2								
p-Isopropyltoluene	100		99		70-130	1		20
Naphthalene	90		91		70-130	1		20
n-Propylbenzene	99		99		69-130	0		20
1,2,3-Trichlorobenzene	95		97		70-130	2		20
1,2,4-Trichlorobenzene	98		96		70-130	2		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
trans-1,4-Dichloro-2-butene	88		85		70-130	3		20
Ethyl ether	96		94		59-134	2		20
tert-Butyl Alcohol	87		85		70-130	2		20
Tertiary-Amyl Methyl Ether	95		91		66-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	101		100		70-130

# SEMIVOLATILES



**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

**Lab ID:** L1305204-01  
**Client ID:** INFLUENT-W1-032813  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 03/29/13 12:30  
**Analyst:** RC

**Date Collected:** 03/28/13 11:15  
**Date Received:** 03/28/13  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 03/28/13 23:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	93		15-120
4-Terphenyl-d14	101		41-149

**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

**Lab ID:** L1305204-01  
**Client ID:** INFLUENT-W1-032813  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 1,8270D-SIM  
**Analytical Date:** 04/03/13 00:32  
**Analyst:** AS

**Date Collected:** 03/28/13 11:15  
**Date Received:** 03/28/13  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 03/28/13 23:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
1-Methylnaphthalene	ND		ug/l	0.20	--	1
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		15-120
4-Terphenyl-d14	61		41-149

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 03/29/13 17:26  
 Analyst: AS

Extraction Method: EPA 3510C  
 Extraction Date: 03/28/13 23:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG598247-1					
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
1-Methylnaphthalene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	55		15-120
4-Terphenyl-d14	79		41-149

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 03/29/13 10:16  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 03/28/13 23:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG598248-1					
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Isophorone	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	2.0	--
NDPA/DPA	ND		ug/l	2.0	--
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 03/29/13 10:16  
 Analyst: RC

Extraction Method: EPA 3510C  
 Extraction Date: 03/28/13 23:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG598248-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
p-Chloro-m-cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	82		41-149

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG598247-2 WG598247-3								
Acenaphthene	58		72		37-111	22		40
2-Chloronaphthalene	60		76		40-140	24		40
Fluoranthene	80		99		40-140	21		40
Naphthalene	58		72		40-140	22		40
Benzo(a)anthracene	80		99		40-140	21		40
Benzo(a)pyrene	67		84		40-140	23		40
Benzo(b)fluoranthene	72		90		40-140	22		40
Benzo(k)fluoranthene	72		90		40-140	22		40
Chrysene	72		87		40-140	19		40
Acenaphthylene	64		82		40-140	25		40
Anthracene	71		88		40-140	21		40
Benzo(ghi)perylene	70		87		40-140	22		40
Fluorene	66		80		40-140	19		40
Phenanthrene	64		78		40-140	20		40
Dibenzo(a,h)anthracene	70		88		40-140	23		40
Indeno(1,2,3-cd)Pyrene	74		92		40-140	22		40
Pyrene	75		92		26-127	20		40
1-Methylnaphthalene	62		77		40-140	22		40
2-Methylnaphthalene	88		110		40-140	22		40



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG598247-2 WG598247-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	64		80		23-120
2-Fluorobiphenyl	62		77		15-120
4-Terphenyl-d14	74		92		41-149

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG598248-2 WG598248-3								
Benzidine	28		37		10-75	28		30
1,2,4-Trichlorobenzene	62		76		39-98	20		30
Bis(2-chloroethyl)ether	65		82		40-140	23		30
1,2-Dichlorobenzene	59		75		40-140	24		30
1,3-Dichlorobenzene	58		71		40-140	20		30
1,4-Dichlorobenzene	59		76		36-97	25		30
3,3'-Dichlorobenzidine	86		95		40-140	10		30
2,4-Dinitrotoluene	108	Q	120	Q	24-96	11		30
2,6-Dinitrotoluene	108		117		40-140	8		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG598248-2 WG598248-3								
Azobenzene	88		100		40-140	13		30
4-Chlorophenyl phenyl ether	84		95		40-140	12		30
4-Bromophenyl phenyl ether	94		103		40-140	9		30
Bis(2-chloroisopropyl)ether	59		74		40-140	23		30
Bis(2-chloroethoxy)methane	69		84		40-140	20		30
Hexachlorocyclopentadiene	62		78		40-140	23		30
Isophorone	77		91		40-140	17		30
Nitrobenzene	70		82		40-140	16		30
NitrosoDiPhenylAmine(NDPA)/DPA	89		101		40-140	13		30
Bis(2-Ethylhexyl)phthalate	103		113		40-140	9		30
Butyl benzyl phthalate	103		113		40-140	9		30
Di-n-butylphthalate	105		116		40-140	10		30
Di-n-octylphthalate	96		107		40-140	11		30
Diethyl phthalate	96		106		40-140	10		30
Dimethyl phthalate	92		102		40-140	10		30
Aniline	37	Q	46		40-140	22		30
4-Chloroaniline	43		52		40-140	19		30
2-Nitroaniline	104		116		52-143	11		30
3-Nitroaniline	73		79		25-145	8		30
4-Nitroaniline	104		112		51-143	7		30
Dibenzofuran	78		90		40-140	14		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG598248-2 WG598248-3								
n-Nitrosodimethylamine	48		56		22-74	15		30
2,4,6-Trichlorophenol	92		102		30-130	10		30
P-Chloro-M-Cresol	93		105	Q	23-97	12		30
2-Chlorophenol	69		86		27-123	22		30
2,4-Dichlorophenol	79		93		30-130	16		30
2,4-Dimethylphenol	82		100		30-130	20		30
2-Nitrophenol	80		98		30-130	20		30
4-Nitrophenol	77		87	Q	10-80	12		30
2,4-Dinitrophenol	84		90		20-130	7		30
4,6-Dinitro-o-cresol	107		114		20-164	6		30
Phenol	42		50		12-110	17		30
2-Methylphenol	74		88		30-130	17		30
3-Methylphenol/4-Methylphenol	67		80		30-130	18		30
2,4,5-Trichlorophenol	84		102		30-130	19		30
Benzoic Acid	26		27		10-164	4		30
Benzyl Alcohol	52		57		26-116	9		30
Carbazole	94		102		55-144	8		30
Pyridine	16		25		10-66	44	Q	30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG598248-2 WG598248-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		63		21-120
Phenol-d6	41		47		10-120
Nitrobenzene-d5	73		87		23-120
2-Fluorobiphenyl	74		90		15-120
2,4,6-Tribromophenol	103		113		10-120
4-Terphenyl-d14	82		89		41-149

# PCBS

**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**SAMPLE RESULTS**

**Lab ID:** L1305204-01  
**Client ID:** INFLUENT-W1-032813  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 5,608  
**Analytical Date:** 04/01/13 10:41  
**Analyst:** KB

**Date Collected:** 03/28/13 11:15  
**Date Received:** 03/28/13  
**Field Prep:** See Narrative  
**Extraction Method:** EPA 608  
**Extraction Date:** 03/29/13 00:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 03/29/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 03/29/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		30-150
Decachlorobiphenyl	70		30-150

**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 5,608  
**Analytical Date:** 04/01/13 10:53  
**Analyst:** KB

**Extraction Method:** EPA 608  
**Extraction Date:** 03/29/13 00:46  
**Cleanup Method1:** EPA 3665A  
**Cleanup Date1:** 03/29/13  
**Cleanup Method2:** EPA 3660B  
**Cleanup Date2:** 03/29/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG598260-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	108		30-150



## Matrix Spike Analysis

### Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598260-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813												
Aroclor 1016	ND	1.02	1.04	102		-	-		40-140	-		50
Aroclor 1260	ND	1.02	0.967	95		-	-		40-140	-		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,5,6-Tetrachloro-m-xylene	92				30-150
Decachlorobiphenyl	105				30-150

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG598260-2								
Aroclor 1016	98		-		40-140	-		50
Aroclor 1260	92		-		40-140	-		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	84				30-150
Decachlorobiphenyl	109				30-150

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598260-4 QC Sample: L1305225-01 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		50
Aroclor 1221	ND	ND	ug/l	NC		50
Aroclor 1232	ND	ND	ug/l	NC		50
Aroclor 1242	ND	ND	ug/l	NC		50
Aroclor 1248	ND	ND	ug/l	NC		50
Aroclor 1254	ND	ND	ug/l	NC		50
Aroclor 1260	ND	ND	ug/l	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	15	Q	64		30-150
Decachlorobiphenyl	17	Q	43		30-150

## METALS

Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

## SAMPLE RESULTS

Lab ID: L1305204-01  
 Client ID: INFLUENT-W1-032813  
 Sample Location: WELLESLEY, MA  
 Matrix: Water

Date Collected: 03/28/13 11:15  
 Date Received: 03/28/13  
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Antimony, Dissolved	ND		mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Chromium, Dissolved	0.00130		mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Copper, Dissolved	ND		mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Iron, Dissolved	ND		mg/l	0.05	--	1	04/01/13 14:57	04/03/13 14:25	EPA 3005A	19,200.7	KL
Lead, Dissolved	ND		mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.0002	--	1	04/01/13 16:31	04/02/13 15:49	EPA 245.1	3,245.1	JH
Nickel, Dissolved	0.00053		mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.00500	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM
Zinc, Dissolved	ND		mg/l	0.01000	--	1	04/01/13 14:57	04/01/13 20:33	NA	1,6020A	BM



Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG598751-1									
Antimony, Dissolved	ND	mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Arsenic, Dissolved	ND	mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Cadmium, Dissolved	ND	mg/l	0.00020	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Chromium, Dissolved	ND	mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Copper, Dissolved	ND	mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Lead, Dissolved	ND	mg/l	0.00100	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Nickel, Dissolved	ND	mg/l	0.00050	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Selenium, Dissolved	ND	mg/l	0.00500	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Silver, Dissolved	ND	mg/l	0.00040	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM
Zinc, Dissolved	ND	mg/l	0.01000	--	1	04/01/13 14:57	04/01/13 20:20	1,6020A	BM

### Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG598757-1									
Mercury, Dissolved	ND	mg/l	0.0002	--	1	04/01/13 16:31	04/02/13 15:45	3,245.1	JH

### Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG599140-1									
Iron, Dissolved	ND	mg/l	0.05	--	1	04/01/13 14:57	04/03/13 14:17	19,200.7	KL

### Prep Information

Digestion Method: EPA 3005A



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG598751-2								
Antimony, Dissolved	95		-		80-120	-		
Arsenic, Dissolved	107		-		80-120	-		
Cadmium, Dissolved	101		-		80-120	-		
Chromium, Dissolved	95		-		80-120	-		
Copper, Dissolved	107		-		80-120	-		
Lead, Dissolved	108		-		80-120	-		
Nickel, Dissolved	103		-		80-120	-		
Selenium, Dissolved	105		-		80-120	-		
Silver, Dissolved	103		-		80-120	-		
Zinc, Dissolved	105		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG598757-2								
Mercury, Dissolved	98		-		85-115	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG599140-2								
Iron, Dissolved	89		-		85-115	-		



# Matrix Spike Analysis

## Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598751-4 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813												
Antimony, Dissolved	ND	0.5	0.4619	92		-	-		80-120	-		20
Arsenic, Dissolved	ND	0.12	0.1255	104		-	-		80-120	-		20
Cadmium, Dissolved	ND	0.51	0.5025	99		-	-		80-120	-		20
Chromium, Dissolved	0.00130	0.2	0.1862	92		-	-		80-120	-		20
Copper, Dissolved	ND	0.25	0.2595	104		-	-		80-120	-		20
Lead, Dissolved	ND	0.51	0.5423	106		-	-		80-120	-		20
Nickel, Dissolved	0.00053	0.5	0.5005	100		-	-		80-120	-		20
Selenium, Dissolved	ND	0.12	0.125	104		-	-		80-120	-		20
Silver, Dissolved	ND	0.05	0.04984	100		-	-		80-120	-		20
Zinc, Dissolved	ND	0.5	0.5103	102		-	-		80-120	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598757-4 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813												
Mercury, Dissolved	ND	0.001	0.0013	131	Q	-	-		70-130	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG599140-4 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813												
Iron, Dissolved	ND	1	0.89	89		-	-		75-125	-		20

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598751-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.00130	0.00129	mg/l	1		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.00053	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598757-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG599140-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Iron, Dissolved	ND	ND	mg/l	NC		20

# **INORGANICS & MISCELLANEOUS**

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

## SAMPLE RESULTS

Lab ID: L1305204-01  
 Client ID: INFLUENT-W1-032813  
 Sample Location: WELLESLEY, MA  
 Matrix: Water

Date Collected: 03/28/13 11:15  
 Date Received: 03/28/13  
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	7.4		mg/l	5.0	NA	1	-	04/01/13 14:45	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	--	1	03/29/13 10:19	04/01/13 14:18	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/29/13 00:47	30,4500CL-D	EL
TPH	ND		mg/l	4.00	--	1	04/01/13 07:30	04/01/13 10:00	74,1664A	ML
Phenolics, Total	ND		mg/l	0.030	--	1	04/02/13 16:30	04/02/13 21:22	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/28/13 19:25	03/28/13 19:42	30,3500CR-D	EL
Anions by Ion Chromatography - Westborough Lab										
Chloride	37.8		mg/l	5.00	--	10	-	03/30/13 00:55	44,300.0	AU



Project Name: CVS STORE 1254

Lab Number: L1305204

Project Number: 081.06017

Report Date: 04/04/13

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598214-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/28/13 19:25	03/28/13 19:41	30,3500CR-D	EL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598258-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/29/13 00:47	30,4500CL-D	EL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598352-1										
Cyanide, Total	ND		mg/l	0.005	--	1	03/29/13 10:19	04/01/13 14:06	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598614-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	04/01/13 14:45	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598624-1										
TPH	ND		mg/l	4.00	--	1	04/01/13 07:30	04/01/13 10:00	74,1664A	ML
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG598821-1										
Chloride	ND		mg/l	0.500	--	1	-	03/29/13 16:31	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG598943-1										
Phenolics, Total	ND		mg/l	0.030	--	1	04/02/13 16:30	04/02/13 18:49	4,420.1	MP

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** CVS STORE 1254

**Project Number:** 081.06017

**Lab Number:** L1305204

**Report Date:** 04/04/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG598214-2								
Chromium, Hexavalent	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG598258-2								
Chlorine, Total Residual	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG598352-2								
Cyanide, Total	104		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG598624-2								
TPH	90		-		64-132	-		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG598821-2								
Chloride	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG598943-2								
Phenolics, Total	105		-		82-111	-		12

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598214-4 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813												
Chromium, Hexavalent	ND	0.1	0.098	98		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598352-4 QC Sample: L1305108-04 Client ID: MS Sample												
Cyanide, Total	ND	0.4	0.391	98		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598624-4 QC Sample: L1305295-01 Client ID: MS Sample												
TPH	ND	27	20.7	77		-	-		64-132	-		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598821-3 QC Sample: L1305065-01 Client ID: MS Sample												
Chloride	21.5	4	24.8	82		-	-		40-151	-		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598943-4 QC Sample: L1305152-13 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.90	112		-	-		77-124	-		12

# **Lab Duplicate Analysis** Batch Quality Control

Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598214-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598258-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598352-3 QC Sample: L1305108-04 Client ID: DUP Sample						
Cyanide, Total	ND	0.010	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598614-2 QC Sample: L1305335-02 Client ID: DUP Sample						
Solids, Total Suspended	160	150	mg/l	6		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598624-3 QC Sample: L1305295-02 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598821-4 QC Sample: L1305065-01 Client ID: DUP Sample						
Chloride	21.5	21.5	mg/l	0		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG598943-3 QC Sample: L1305204-01 Client ID: INFLUENT-W1-032813						
Phenolics, Total	ND	ND	mg/l	NC		12



Project Name: CVS STORE 1254

Project Number: 081.06017

Lab Number: L1305204

Report Date: 04/04/13

## Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1305204-01A	Vial HCl preserved	A	N/A	5.4	Y	Absent	8260(14)
L1305204-01B	Vial HCl preserved	A	N/A	5.4	Y	Absent	8260(14)
L1305204-01C	Vial HCl preserved	A	N/A	5.4	Y	Absent	8260(14)
L1305204-01D	Amber 1000ml unpreserved	A	7	5.4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1305204-01E	Amber 1000ml unpreserved	A	7	5.4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1305204-01F	Amber 1000ml unpreserved	A	7	5.4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1305204-01G	Amber 1000ml unpreserved	A	7	5.4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1305204-01H	Amber 1000ml Na2S2O3	A	7	5.4	Y	Absent	PCB-608(7)
L1305204-01I	Amber 1000ml Na2S2O3	A	7	5.4	Y	Absent	PCB-608(7)
L1305204-01J	Amber 1000ml HCl preserved	A	N/A	5.4	Y	Absent	TPH-1664(28)
L1305204-01K	Amber 1000ml HCl preserved	A	N/A	5.4	Y	Absent	TPH-1664(28)
L1305204-01L	Amber 1000ml H2SO4 preserved	A	<2	5.4	Y	Absent	TPHENOL-420(28)
L1305204-01M	Plastic 1000ml unpreserved	A	7	5.4	Y	Absent	TSS-2540(7)
L1305204-01N	Plastic 500ml unpreserved	A	7	5.4	Y	Absent	CL-300(28),TRC-4500(1)
L1305204-01O	Plastic 500ml unpreserved	A	7	5.4	Y	Absent	HEXCR-3500(1)
L1305204-01P	Plastic 250ml NaOH preserved	A	>12	5.4	Y	Absent	TCN-4500(14)
L1305204-01Q	Plastic 250ml HNO3 preserved	A	<2	5.4	Y	Absent	CU-6020S(180),FE-RI(180),SE-6020S(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),HG-R(28),SB-6020S(180),CD-6020S(180)

*Values in parentheses indicate holding time in days



**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: Data Usability Report



**Project Name:** CVS STORE 1254**Lab Number:** L1305204**Project Number:** 081.06017**Report Date:** 04/04/13**Data Qualifiers**

due to obvious interference.

**M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.**NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.**P** - The RPD between the results for the two columns exceeds the method-specified criteria.**Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)**R** - Analytical results are from sample re-analysis.**RE** - Analytical results are from sample re-extraction.**J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).**ND** - Not detected at the reporting limit (RL) for the sample.

**Project Name:** CVS STORE 1254  
**Project Number:** 081.06017

**Lab Number:** L1305204  
**Report Date:** 04/04/13

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.  
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

*Drinking Water* (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

*Wastewater/Non-Potable Water* (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

*Solid Waste/Soil* (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

### Maine Department of Human Services Certificate/Lab ID: 2009024.

*Drinking Water* (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

*Wastewater/Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

*Solid Waste/Soil* (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

### Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

*Drinking Water* (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert/QT SM9223B; MF-SM9222D.)

*Non-Potable Water (Inorganic Parameters:*, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

*Organic Parameters:* (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

**New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.**

*Drinking Water (Inorganic Parameters:* SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

**New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.**

*Drinking Water (Inorganic Parameters:* SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

*Non-Potable Water (Inorganic Parameters:* SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

*Solid & Chemical Materials (Inorganic Parameters:* SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

**New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.**

*Drinking Water (Inorganic Parameters:* SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

*Non-Potable Water (Inorganic Parameters:* SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

*Solid & Hazardous Waste (Inorganic Parameters:* EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

**North Carolina Department of the Environment and Natural Resources** Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

*Drinking Water Program* Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

**Pennsylvania Department of Environmental Protection** Certificate/Lab ID : 68-03671. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

**Texas Commissoon on Environmental Quality** Certificate/Lab ID: T104704476. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID: 460195. **NELAP Accredited.**

*Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

*Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CI-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, )

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.

*Drinking Water* (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

*Non-Potable Water* (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

**The following analytes are not included in our current NELAP/TNI Scope of Accreditation:**

**EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.





320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

PAGE 1 OF 2

Serial No:04041315:41

Date Rec'd in Lab: 3/28/13

ALPHA Job #: L/305204

## Report Information - Data Deliverables

Project Name: CVS Store 1254

☒ ADEx ☐ EMAIL

### Billing Information

☒ Same as Client info      PO #: 5175

## Client Information

Client: Ransom Consulting  
Address: 12 Kent Way, Suite 100  
Bedford, MA 01422  
Phone: 978-465-1822

Project Location: Wellesley, MA

Project #: 081.06017

Project Manager: Anton Marko

ALPHA Quote #:

### Turn-Around Time

☐ Standard      ☐ RUSH (only confirmed if pre-approved!)

Date Due: 4/4/13

**Additional Project Information:**

Total metals, Heter field filtered with 0.45 micron filter

## Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods      ☐ Yes ☒ No CT RCP Analytical Methods  
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)  
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)  
☒ Yes ☐ No NPDES RGP  
☐ Other State /Fed Program      Criteria → Pb, Zn

Criteria  $\rightarrow$  Fe, Zn

ANALYSIS		SAMPLE INFO	
VOC: <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2		<input type="checkbox"/> Filtration <input checked="" type="checkbox"/> Field <input type="checkbox"/> Lab to do	
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH		<input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15			
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3			
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only			
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only			
<input checked="" type="checkbox"/> TPCB <input type="checkbox"/> PEST			
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint			
TSS			
Cl, TRC			
Total Pb, As, Cd, Cr, Cu, Pb, Hg, Ni, Se			
Hex Cr			
Total Phenols			
PAHs			
Sample Comments			

T  
 C  
 T  
 A  
 E  
 3  
 E  
 C  
 -  
 -  
 E  
 E  
 S

[illegible]**Container Type**

**P = Plastic**  
**A = Amber glass**  
**V = Vial**  
**G = Glass**  
**B = Bacteria cup**  
**C = Cube**  
**O = Other**  
**E = Encore**  
**D = BOD Bottle**

**Preservative**

A= None  
B= HCl  
C= HNO₃  
D= H₂SO₄  
E= NaOH  
F= MeOH  
G= NaHSO₄  
H= Na₂S₂O₃  
I= Ascorbic Acid  
J= NH₄Cl  
K= Zn Acetate  
Q= Other

### Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions.

See reverse side

FORM NO: 01-01 (rev. 12-Mar-2012)





## ANALYTICAL REPORT

Lab Number:	L0808388
Client:	Ransom Environmental Browns Wharf Newburyport, MA 01950
ATTN:	Andrew Bevan
Project Name:	WORCESTER STREET
Project Number:	086017
Report Date:	06/13/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0808388-01	SB101-S2-060508	WELLESLEY, MA
L0808388-02	SB102-S2-060508	WELLESLEY, MA
L0808388-03	SB103-S2-060508	WELLESLEY, MA
L0808388-04	SB104-S2-060508	WELLESLEY, MA
L0808388-05	SB105-S1-060508	WELLESLEY, MA
L0808388-06	SB106-S2-060508	WELLESLEY, MA
L0808388-07	SB107-S2-060508	WELLESLEY, MA
L0808388-08	SB108-S1-060508	WELLESLEY, MA
L0808388-09	TB101/102-060208	WELLESLEY, MA
L0808388-10	TW101-W1-060508	WELLESLEY, MA
L0808388-11	TW102-W1-060508	WELLESLEY, MA
L0808388-12	TW103-W1-060508	WELLESLEY, MA
L0808388-13	TW104-W1-060508	WELLESLEY, MA
L0808388-14	TW106-W1-060508	WELLESLEY, MA
L0808388-15	TB103-TB-060208	WELLESLEY, MA

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

**MADEP MCP Response Action Analytical Report Certification**

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

<b>An affirmative response to questions A, B, C &amp; D is required for "Presumptive Certainty" status</b>		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(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?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	YES
<b>A response to questions E and F is required for "Presumptive Certainty" status</b>		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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#### MCP Related Narratives

##### Volatile Organics

L0808388-01, -06, -10 and -11 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

L0808388-03: The methanol preserved vial was analyzed due to no internal standard or surrogate recovery in either water preserved vial.

One internal standard for L0808388-04 was outside the acceptance criteria; however, re-analysis achieved similar results. The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds are considered to have a potentially high bias.

The surrogate recovery for L0808388-04R was above the acceptance criteria for 4-Bromofluorobenzene.

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### Case Narrative (continued)

The WG325482-1/2 LCS/LCSD recoveries associated with L0808388-03 are below the acceptance criteria for several compounds; however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for Dichlorodifluoromethane and a potentially low bias for 2-Hexanone and Carbon disulfide.

VPH

L0808388-01 and -06 exceeded the recommended 1:1 methanol:soil ratio.

L0808388-01, -06, -10 and -11 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The surrogate recoveries for L0808388-01 are below the acceptance criteria for 2,5-Dibromotoluene due to the dilution required to quantitate the sample. Re-analysis is not required; therefore, the results of the original analysis are reported.

The WG324784-1/2 LCS/LCSD recoveries associated with L0808388-01 through -09 were below the acceptance criteria for Pentane; however, the target carbon ranges and analytes were within method criteria. The results of the original analysis are reported.

In reference to question F:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

EPH

The WG325525-2/3 LCS/LCSD recoveries associated with L0808388-10 through -14 were below the acceptance criteria for Decane (C10); however, the target carbon ranges and analytes were within method criteria. The results of the original analysis are reported.

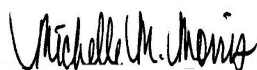
Metals

In reference to question F:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 06/13/08

# ORGANICS



# VOLATILES

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-01  
**Client ID:** SB101-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/09/08 18:36  
**Analyst:** BN  
**Percent Solids:** 87%

**Date Collected:** 06/05/08 12:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	9600	20
1,1-Dichloroethane	ND		ug/kg	1400	20
Chloroform	ND		ug/kg	1400	20
Carbon tetrachloride	ND		ug/kg	960	20
1,2-Dichloropropane	ND		ug/kg	3400	20
Dibromochloromethane	ND		ug/kg	960	20
1,1,2-Trichloroethane	ND		ug/kg	1400	20
Tetrachloroethene	ND		ug/kg	960	20
Chlorobenzene	ND		ug/kg	960	20
Trichlorofluoromethane	ND		ug/kg	4800	20
1,2-Dichloroethane	ND		ug/kg	960	20
1,1,1-Trichloroethane	ND		ug/kg	960	20
Bromodichloromethane	ND		ug/kg	960	20
trans-1,3-Dichloropropene	ND		ug/kg	960	20
cis-1,3-Dichloropropene	ND		ug/kg	960	20
1,1-Dichloropropene	ND		ug/kg	4800	20
Bromoform	ND		ug/kg	3800	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	960	20
Benzene	ND		ug/kg	960	20
Toluene	2200		ug/kg	1400	20
Ethylbenzene	25000		ug/kg	960	20
Chloromethane	ND		ug/kg	4800	20
Bromomethane	ND		ug/kg	1900	20
Vinyl chloride	ND		ug/kg	1900	20
Chloroethane	ND		ug/kg	1900	20
1,1-Dichloroethene	ND		ug/kg	960	20
trans-1,2-Dichloroethene	ND		ug/kg	1400	20
Trichloroethene	ND		ug/kg	960	20
1,2-Dichlorobenzene	ND		ug/kg	4800	20
1,3-Dichlorobenzene	ND		ug/kg	4800	20

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-01

Date Collected: 06/05/08 12:00

Client ID: SB101-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4800	20
Methyl tert butyl ether	ND		ug/kg	1900	20
p/m-Xylene	220000		ug/kg	1900	20
o-Xylene	58000		ug/kg	1900	20
cis-1,2-Dichloroethene	ND		ug/kg	960	20
Dibromomethane	ND		ug/kg	9600	20
1,2,3-Trichloropropane	ND		ug/kg	9600	20
Styrene	ND		ug/kg	1900	20
Dichlorodifluoromethane	ND		ug/kg	9600	20
Acetone	ND		ug/kg	9600	20
Carbon disulfide	ND		ug/kg	48000	20
2-Butanone	ND		ug/kg	9600	20
4-Methyl-2-pentanone	ND		ug/kg	9600	20
2-Hexanone	ND		ug/kg	9600	20
Bromochloromethane	ND		ug/kg	4800	20
Tetrahydrofuran	ND		ug/kg	19000	20
2,2-Dichloropropane	ND		ug/kg	4800	20
1,2-Dibromoethane	ND		ug/kg	3800	20
1,3-Dichloropropane	ND		ug/kg	4800	20
1,1,1,2-Tetrachloroethane	ND		ug/kg	960	20
Bromobenzene	ND		ug/kg	4800	20
n-Butylbenzene	13000		ug/kg	960	20
sec-Butylbenzene	ND		ug/kg	960	20
tert-Butylbenzene	ND		ug/kg	4800	20
o-Chlorotoluene	ND		ug/kg	4800	20
p-Chlorotoluene	ND		ug/kg	4800	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	4800	20
Hexachlorobutadiene	ND		ug/kg	4800	20
Isopropylbenzene	11000		ug/kg	960	20
p-Isopropyltoluene	3300		ug/kg	960	20
Naphthalene	22000		ug/kg	4800	20
n-Propylbenzene	21000		ug/kg	960	20
1,2,3-Trichlorobenzene	ND		ug/kg	4800	20
1,2,4-Trichlorobenzene	ND		ug/kg	4800	20
1,3,5-Trimethylbenzene	56000		ug/kg	4800	20
1,2,4-Trimethylbenzene	180000		ug/kg	4800	20
Ethyl ether	ND		ug/kg	4800	20

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-01

Date Collected: 06/05/08 12:00

Client ID: SB101-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3800	20
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3800	20
Tertiary-Amyl Methyl Ether	ND		ug/kg	3800	20
1,4-Dioxane	ND		ug/kg	480000	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	88		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-02  
**Client ID:** SB102-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 10:43  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 11:20  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	9.7	1
1,1-Dichloroethane	ND		ug/kg	1.4	1
Chloroform	ND		ug/kg	1.4	1
Carbon tetrachloride	ND		ug/kg	0.97	1
1,2-Dichloropropane	ND		ug/kg	3.4	1
Dibromochloromethane	ND		ug/kg	0.97	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	1
Tetrachloroethene	ND		ug/kg	0.97	1
Chlorobenzene	ND		ug/kg	0.97	1
Trichlorofluoromethane	ND		ug/kg	4.8	1
1,2-Dichloroethane	ND		ug/kg	0.97	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	1
Bromodichloromethane	ND		ug/kg	0.97	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	1
1,1-Dichloropropene	ND		ug/kg	4.8	1
Bromoform	ND		ug/kg	3.9	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	1
Benzene	ND		ug/kg	0.97	1
Toluene	ND		ug/kg	1.4	1
Ethylbenzene	ND		ug/kg	0.97	1
Chloromethane	ND		ug/kg	4.8	1
Bromomethane	ND		ug/kg	1.9	1
Vinyl chloride	ND		ug/kg	1.9	1
Chloroethane	ND		ug/kg	1.9	1
1,1-Dichloroethene	ND		ug/kg	0.97	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	1
Trichloroethene	ND		ug/kg	0.97	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-02

Date Collected: 06/05/08 11:20

Client ID: SB102-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.8	1
Methyl tert butyl ether	ND		ug/kg	1.9	1
p/m-Xylene	ND		ug/kg	1.9	1
o-Xylene	ND		ug/kg	1.9	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	1
Dibromomethane	ND		ug/kg	9.7	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	1
Styrene	ND		ug/kg	1.9	1
Dichlorodifluoromethane	ND		ug/kg	9.7	1
Acetone	15		ug/kg	9.7	1
Carbon disulfide	ND		ug/kg	48	1
2-Butanone	ND		ug/kg	9.7	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1
2-Hexanone	ND		ug/kg	9.7	1
Bromochloromethane	ND		ug/kg	4.8	1
Tetrahydrofuran	ND		ug/kg	19	1
2,2-Dichloropropane	ND		ug/kg	4.8	1
1,2-Dibromoethane	ND		ug/kg	3.9	1
1,3-Dichloropropane	ND		ug/kg	4.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	1
Bromobenzene	ND		ug/kg	4.8	1
n-Butylbenzene	ND		ug/kg	0.97	1
sec-Butylbenzene	ND		ug/kg	0.97	1
tert-Butylbenzene	ND		ug/kg	4.8	1
o-Chlorotoluene	ND		ug/kg	4.8	1
p-Chlorotoluene	ND		ug/kg	4.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	1
Hexachlorobutadiene	ND		ug/kg	4.8	1
Isopropylbenzene	ND		ug/kg	0.97	1
p-Isopropyltoluene	ND		ug/kg	0.97	1
Naphthalene	ND		ug/kg	4.8	1
n-Propylbenzene	ND		ug/kg	0.97	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	1
Ethyl ether	ND		ug/kg	4.8	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-02

Date Collected: 06/05/08 11:20

Client ID: SB102-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.9	1
1,4-Dioxane	ND		ug/kg	480	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	99		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-03  
**Client ID:** SB103-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/12/08 12:44  
**Analyst:** BN  
**Percent Solids:** 85%

**Date Collected:** 06/05/08 10:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	570	1
1,1-Dichloroethane	ND		ug/kg	86	1
Chloroform	ND		ug/kg	86	1
Carbon tetrachloride	ND		ug/kg	57	1
1,2-Dichloropropane	ND		ug/kg	200	1
Dibromochloromethane	ND		ug/kg	57	1
1,1,2-Trichloroethane	ND		ug/kg	86	1
Tetrachloroethene	ND		ug/kg	57	1
Chlorobenzene	ND		ug/kg	57	1
Trichlorofluoromethane	ND		ug/kg	280	1
1,2-Dichloroethane	ND		ug/kg	57	1
1,1,1-Trichloroethane	ND		ug/kg	57	1
Bromodichloromethane	ND		ug/kg	57	1
trans-1,3-Dichloropropene	ND		ug/kg	57	1
cis-1,3-Dichloropropene	ND		ug/kg	57	1
1,1-Dichloropropene	ND		ug/kg	280	1
Bromoform	ND		ug/kg	230	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	57	1
Benzene	ND		ug/kg	57	1
Toluene	ND		ug/kg	86	1
Ethylbenzene	ND		ug/kg	57	1
Chloromethane	ND		ug/kg	280	1
Bromomethane	ND		ug/kg	110	1
Vinyl chloride	ND		ug/kg	110	1
Chloroethane	ND		ug/kg	110	1
1,1-Dichloroethene	ND		ug/kg	57	1
trans-1,2-Dichloroethene	ND		ug/kg	86	1
Trichloroethene	ND		ug/kg	57	1
1,2-Dichlorobenzene	ND		ug/kg	280	1
1,3-Dichlorobenzene	ND		ug/kg	280	1



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-03

Date Collected: 06/05/08 10:50

Client ID: SB103-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	280	1
Methyl tert butyl ether	ND		ug/kg	110	1
p/m-Xylene	ND		ug/kg	110	1
o-Xylene	ND		ug/kg	110	1
cis-1,2-Dichloroethene	ND		ug/kg	57	1
Dibromomethane	ND		ug/kg	570	1
1,2,3-Trichloropropane	ND		ug/kg	570	1
Styrene	ND		ug/kg	110	1
Dichlorodifluoromethane	ND		ug/kg	570	1
Acetone	ND		ug/kg	570	1
Carbon disulfide	ND		ug/kg	2800	1
2-Butanone	ND		ug/kg	570	1
4-Methyl-2-pentanone	ND		ug/kg	570	1
2-Hexanone	ND		ug/kg	570	1
Bromochloromethane	ND		ug/kg	280	1
Tetrahydrofuran	ND		ug/kg	1100	1
2,2-Dichloropropane	ND		ug/kg	280	1
1,2-Dibromoethane	ND		ug/kg	230	1
1,3-Dichloropropane	ND		ug/kg	280	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	57	1
Bromobenzene	ND		ug/kg	280	1
n-Butylbenzene	ND		ug/kg	57	1
sec-Butylbenzene	ND		ug/kg	57	1
tert-Butylbenzene	ND		ug/kg	280	1
o-Chlorotoluene	ND		ug/kg	280	1
p-Chlorotoluene	ND		ug/kg	280	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	1
Hexachlorobutadiene	ND		ug/kg	280	1
Isopropylbenzene	ND		ug/kg	57	1
p-Isopropyltoluene	ND		ug/kg	57	1
Naphthalene	ND		ug/kg	280	1
n-Propylbenzene	ND		ug/kg	57	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	1
Ethyl ether	ND		ug/kg	280	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-03

Date Collected: 06/05/08 10:50

Client ID: SB103-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	230	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	230	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	230	1
1,4-Dioxane	ND		ug/kg	28000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	119		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/09/08 14:25  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	8.2	1
1,1-Dichloroethane	ND		ug/kg	1.2	1
Chloroform	ND		ug/kg	1.2	1
Carbon tetrachloride	ND		ug/kg	0.82	1
1,2-Dichloropropane	ND		ug/kg	2.9	1
Dibromochloromethane	ND		ug/kg	0.82	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	1
Tetrachloroethene	ND		ug/kg	0.82	1
Chlorobenzene	ND		ug/kg	0.82	1
Trichlorofluoromethane	ND		ug/kg	4.1	1
1,2-Dichloroethane	ND		ug/kg	0.82	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	1
Bromodichloromethane	ND		ug/kg	0.82	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	1
1,1-Dichloropropene	ND		ug/kg	4.1	1
Bromoform	ND		ug/kg	3.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	1
Benzene	ND		ug/kg	0.82	1
Toluene	ND		ug/kg	1.2	1
Ethylbenzene	ND		ug/kg	0.82	1
Chloromethane	ND		ug/kg	4.1	1
Bromomethane	ND		ug/kg	1.6	1
Vinyl chloride	ND		ug/kg	1.6	1
Chloroethane	ND		ug/kg	1.6	1
1,1-Dichloroethene	ND		ug/kg	0.82	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	1
Trichloroethene	ND		ug/kg	0.82	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-04

Date Collected: 06/05/08 10:30

Client ID: SB104-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.1	1
Methyl tert butyl ether	ND		ug/kg	1.6	1
p/m-Xylene	ND		ug/kg	1.6	1
o-Xylene	ND		ug/kg	1.6	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	1
Dibromomethane	ND		ug/kg	8.2	1
1,2,3-Trichloropropane	ND		ug/kg	8.2	1
Styrene	ND		ug/kg	1.6	1
Dichlorodifluoromethane	ND		ug/kg	8.2	1
Acetone	ND		ug/kg	8.2	1
Carbon disulfide	ND		ug/kg	41	1
2-Butanone	ND		ug/kg	8.2	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1
2-Hexanone	ND		ug/kg	8.2	1
Bromochloromethane	ND		ug/kg	4.1	1
Tetrahydrofuran	ND		ug/kg	16	1
2,2-Dichloropropane	ND		ug/kg	4.1	1
1,2-Dibromoethane	ND		ug/kg	3.3	1
1,3-Dichloropropane	ND		ug/kg	4.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.82	1
Bromobenzene	ND		ug/kg	4.1	1
n-Butylbenzene	ND		ug/kg	0.82	1
sec-Butylbenzene	ND		ug/kg	0.82	1
tert-Butylbenzene	ND		ug/kg	4.1	1
o-Chlorotoluene	ND		ug/kg	4.1	1
p-Chlorotoluene	ND		ug/kg	4.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1
Hexachlorobutadiene	ND		ug/kg	4.1	1
Isopropylbenzene	ND		ug/kg	0.82	1
p-Isopropyltoluene	ND		ug/kg	0.82	1
Naphthalene	ND		ug/kg	4.1	1
n-Propylbenzene	ND		ug/kg	0.82	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	1
Ethyl ether	ND		ug/kg	4.1	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-04

Date Collected: 06/05/08 10:30

Client ID: SB104-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.3	1
1,4-Dioxane	ND		ug/kg	410	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	101		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-04 R  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/10/08 13:59  
**Analyst:** BN  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	8.4	1
1,1-Dichloroethane	ND		ug/kg	1.2	1
Chloroform	ND		ug/kg	1.2	1
Carbon tetrachloride	ND		ug/kg	0.84	1
1,2-Dichloropropane	ND		ug/kg	2.9	1
Dibromochloromethane	ND		ug/kg	0.84	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	1
Tetrachloroethene	ND		ug/kg	0.84	1
Chlorobenzene	ND		ug/kg	0.84	1
Trichlorofluoromethane	ND		ug/kg	4.2	1
1,2-Dichloroethane	ND		ug/kg	0.84	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	1
Bromodichloromethane	ND		ug/kg	0.84	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	1
1,1-Dichloropropene	ND		ug/kg	4.2	1
Bromoform	ND		ug/kg	3.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	1
Benzene	ND		ug/kg	0.84	1
Toluene	ND		ug/kg	1.2	1
Ethylbenzene	ND		ug/kg	0.84	1
Chloromethane	ND		ug/kg	4.2	1
Bromomethane	ND		ug/kg	1.7	1
Vinyl chloride	ND		ug/kg	1.7	1
Chloroethane	ND		ug/kg	1.7	1
1,1-Dichloroethene	ND		ug/kg	0.84	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	1
Trichloroethene	ND		ug/kg	0.84	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-04 R

Date Collected: 06/05/08 10:30

Client ID: SB104-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.2	1
Methyl tert butyl ether	ND		ug/kg	1.7	1
p/m-Xylene	ND		ug/kg	1.7	1
o-Xylene	ND		ug/kg	1.7	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	1
Dibromomethane	ND		ug/kg	8.4	1
1,2,3-Trichloropropane	ND		ug/kg	8.4	1
Styrene	ND		ug/kg	1.7	1
Dichlorodifluoromethane	ND		ug/kg	8.4	1
Acetone	ND		ug/kg	8.4	1
Carbon disulfide	ND		ug/kg	42	1
2-Butanone	ND		ug/kg	8.4	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1
2-Hexanone	ND		ug/kg	8.4	1
Bromochloromethane	ND		ug/kg	4.2	1
Tetrahydrofuran	ND		ug/kg	17	1
2,2-Dichloropropane	ND		ug/kg	4.2	1
1,2-Dibromoethane	ND		ug/kg	3.3	1
1,3-Dichloropropane	ND		ug/kg	4.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.84	1
Bromobenzene	ND		ug/kg	4.2	1
n-Butylbenzene	ND		ug/kg	0.84	1
sec-Butylbenzene	ND		ug/kg	0.84	1
tert-Butylbenzene	ND		ug/kg	4.2	1
o-Chlorotoluene	ND		ug/kg	4.2	1
p-Chlorotoluene	ND		ug/kg	4.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1
Hexachlorobutadiene	ND		ug/kg	4.2	1
Isopropylbenzene	ND		ug/kg	0.84	1
p-Isopropyltoluene	ND		ug/kg	0.84	1
Naphthalene	ND		ug/kg	4.2	1
n-Propylbenzene	ND		ug/kg	0.84	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	1
Ethyl ether	ND		ug/kg	4.2	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-04 R

Date Collected: 06/05/08 10:30

Client ID: SB104-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.3	1
1,4-Dioxane	ND		ug/kg	420	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	<b>132</b>		70-130
Dibromofluoromethane	115		70-130



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-05  
**Client ID:** SB105-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/09/08 15:27  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 08:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	9.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	1
Chloroform	ND		ug/kg	1.4	1
Carbon tetrachloride	ND		ug/kg	0.91	1
1,2-Dichloropropane	ND		ug/kg	3.2	1
Dibromochloromethane	ND		ug/kg	0.91	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	1
Tetrachloroethene	ND		ug/kg	0.91	1
Chlorobenzene	ND		ug/kg	0.91	1
Trichlorofluoromethane	ND		ug/kg	4.5	1
1,2-Dichloroethane	ND		ug/kg	0.91	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	1
Bromodichloromethane	ND		ug/kg	0.91	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	1
1,1-Dichloropropene	ND		ug/kg	4.5	1
Bromoform	ND		ug/kg	3.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	1
Benzene	ND		ug/kg	0.91	1
Toluene	ND		ug/kg	1.4	1
Ethylbenzene	ND		ug/kg	0.91	1
Chloromethane	ND		ug/kg	4.5	1
Bromomethane	ND		ug/kg	1.8	1
Vinyl chloride	ND		ug/kg	1.8	1
Chloroethane	ND		ug/kg	1.8	1
1,1-Dichloroethene	ND		ug/kg	0.91	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	1
Trichloroethene	ND		ug/kg	0.91	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-05

Date Collected: 06/05/08 08:30

Client ID: SB105-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.5	1
Methyl tert butyl ether	ND		ug/kg	1.8	1
p/m-Xylene	ND		ug/kg	1.8	1
o-Xylene	ND		ug/kg	1.8	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	1
Dibromomethane	ND		ug/kg	9.1	1
1,2,3-Trichloropropane	ND		ug/kg	9.1	1
Styrene	ND		ug/kg	1.8	1
Dichlorodifluoromethane	ND		ug/kg	9.1	1
Acetone	48		ug/kg	9.1	1
Carbon disulfide	ND		ug/kg	45	1
2-Butanone	12		ug/kg	9.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1
2-Hexanone	ND		ug/kg	9.1	1
Bromochloromethane	ND		ug/kg	4.5	1
Tetrahydrofuran	ND		ug/kg	18	1
2,2-Dichloropropane	ND		ug/kg	4.5	1
1,2-Dibromoethane	ND		ug/kg	3.6	1
1,3-Dichloropropane	ND		ug/kg	4.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	1
Bromobenzene	ND		ug/kg	4.5	1
n-Butylbenzene	ND		ug/kg	0.91	1
sec-Butylbenzene	ND		ug/kg	0.91	1
tert-Butylbenzene	ND		ug/kg	4.5	1
o-Chlorotoluene	ND		ug/kg	4.5	1
p-Chlorotoluene	ND		ug/kg	4.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1
Hexachlorobutadiene	ND		ug/kg	4.5	1
Isopropylbenzene	ND		ug/kg	0.91	1
p-Isopropyltoluene	ND		ug/kg	0.91	1
Naphthalene	ND		ug/kg	4.5	1
n-Propylbenzene	ND		ug/kg	0.91	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	1
Ethyl ether	ND		ug/kg	4.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-05

Date Collected: 06/05/08 08:30

Client ID: SB105-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	1
1,4-Dioxane	ND		ug/kg	450	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-06  
**Client ID:** SB106-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/10/08 14:35  
**Analyst:** BN  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 12:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	990	2
1,1-Dichloroethane	ND		ug/kg	150	2
Chloroform	ND		ug/kg	150	2
Carbon tetrachloride	ND		ug/kg	99	2
1,2-Dichloropropane	ND		ug/kg	340	2
Dibromochloromethane	ND		ug/kg	99	2
1,1,2-Trichloroethane	ND		ug/kg	150	2
Tetrachloroethene	ND		ug/kg	99	2
Chlorobenzene	ND		ug/kg	99	2
Trichlorofluoromethane	ND		ug/kg	490	2
1,2-Dichloroethane	ND		ug/kg	99	2
1,1,1-Trichloroethane	ND		ug/kg	99	2
Bromodichloromethane	ND		ug/kg	99	2
trans-1,3-Dichloropropene	ND		ug/kg	99	2
cis-1,3-Dichloropropene	ND		ug/kg	99	2
1,1-Dichloropropene	ND		ug/kg	490	2
Bromoform	ND		ug/kg	400	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	99	2
Benzene	ND		ug/kg	99	2
Toluene	ND		ug/kg	150	2
Ethylbenzene	710		ug/kg	99	2
Chloromethane	ND		ug/kg	490	2
Bromomethane	ND		ug/kg	200	2
Vinyl chloride	ND		ug/kg	200	2
Chloroethane	ND		ug/kg	200	2
1,1-Dichloroethene	ND		ug/kg	99	2
trans-1,2-Dichloroethene	ND		ug/kg	150	2
Trichloroethene	ND		ug/kg	99	2
1,2-Dichlorobenzene	ND		ug/kg	490	2
1,3-Dichlorobenzene	ND		ug/kg	490	2

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-06

Date Collected: 06/05/08 12:30

Client ID: SB106-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	490	2
Methyl tert butyl ether	ND		ug/kg	200	2
p/m-Xylene	4500		ug/kg	200	2
o-Xylene	ND		ug/kg	200	2
cis-1,2-Dichloroethene	ND		ug/kg	99	2
Dibromomethane	ND		ug/kg	990	2
1,2,3-Trichloropropane	ND		ug/kg	990	2
Styrene	ND		ug/kg	200	2
Dichlorodifluoromethane	ND		ug/kg	990	2
Acetone	ND		ug/kg	990	2
Carbon disulfide	ND		ug/kg	4900	2
2-Butanone	ND		ug/kg	990	2
4-Methyl-2-pentanone	ND		ug/kg	990	2
2-Hexanone	ND		ug/kg	990	2
Bromochloromethane	ND		ug/kg	490	2
Tetrahydrofuran	ND		ug/kg	2000	2
2,2-Dichloropropane	ND		ug/kg	490	2
1,2-Dibromoethane	ND		ug/kg	400	2
1,3-Dichloropropane	ND		ug/kg	490	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	99	2
Bromobenzene	ND		ug/kg	490	2
n-Butylbenzene	1600		ug/kg	99	2
sec-Butylbenzene	1000		ug/kg	99	2
tert-Butylbenzene	ND		ug/kg	490	2
o-Chlorotoluene	ND		ug/kg	490	2
p-Chlorotoluene	ND		ug/kg	490	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	490	2
Hexachlorobutadiene	ND		ug/kg	490	2
Isopropylbenzene	690		ug/kg	99	2
p-Isopropyltoluene	990		ug/kg	99	2
Naphthalene	5100		ug/kg	490	2
n-Propylbenzene	1400		ug/kg	99	2
1,2,3-Trichlorobenzene	ND		ug/kg	490	2
1,2,4-Trichlorobenzene	ND		ug/kg	490	2
1,3,5-Trimethylbenzene	2200		ug/kg	490	2
1,2,4-Trimethylbenzene	8600		ug/kg	490	2
Ethyl ether	ND		ug/kg	490	2

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-06

Date Collected: 06/05/08 12:30

Client ID: SB106-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	400	2
Ethyl-Tert-Butyl-Ether	ND		ug/kg	400	2
Tertiary-Amyl Methyl Ether	ND		ug/kg	400	2
1,4-Dioxane	ND		ug/kg	49000	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-07

Date Collected: 06/05/08 09:50

Client ID: SB107-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Matrix: Soil

Analytical Method: 60,8260B

Analytical Date: 06/09/08 17:06

Analyst: BN

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	9.0	1
1,1-Dichloroethane	ND		ug/kg	1.4	1
Chloroform	ND		ug/kg	1.4	1
Carbon tetrachloride	ND		ug/kg	0.90	1
1,2-Dichloropropane	ND		ug/kg	3.2	1
Dibromochloromethane	ND		ug/kg	0.90	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	1
Tetrachloroethene	ND		ug/kg	0.90	1
Chlorobenzene	ND		ug/kg	0.90	1
Trichlorofluoromethane	ND		ug/kg	4.5	1
1,2-Dichloroethane	ND		ug/kg	0.90	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	1
Bromodichloromethane	ND		ug/kg	0.90	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	1
1,1-Dichloropropene	ND		ug/kg	4.5	1
Bromoform	ND		ug/kg	3.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	1
Benzene	ND		ug/kg	0.90	1
Toluene	ND		ug/kg	1.4	1
Ethylbenzene	ND		ug/kg	0.90	1
Chloromethane	ND		ug/kg	4.5	1
Bromomethane	ND		ug/kg	1.8	1
Vinyl chloride	ND		ug/kg	1.8	1
Chloroethane	ND		ug/kg	1.8	1
1,1-Dichloroethene	ND		ug/kg	0.90	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	1
Trichloroethene	ND		ug/kg	0.90	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-07

Date Collected: 06/05/08 09:50

Client ID: SB107-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.5	1
Methyl tert butyl ether	ND		ug/kg	1.8	1
p/m-Xylene	ND		ug/kg	1.8	1
o-Xylene	ND		ug/kg	1.8	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	1
Dibromomethane	ND		ug/kg	9.0	1
1,2,3-Trichloropropane	ND		ug/kg	9.0	1
Styrene	ND		ug/kg	1.8	1
Dichlorodifluoromethane	ND		ug/kg	9.0	1
Acetone	39		ug/kg	9.0	1
Carbon disulfide	ND		ug/kg	45	1
2-Butanone	9.4		ug/kg	9.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	1
2-Hexanone	ND		ug/kg	9.0	1
Bromochloromethane	ND		ug/kg	4.5	1
Tetrahydrofuran	ND		ug/kg	18	1
2,2-Dichloropropane	ND		ug/kg	4.5	1
1,2-Dibromoethane	ND		ug/kg	3.6	1
1,3-Dichloropropane	ND		ug/kg	4.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.90	1
Bromobenzene	ND		ug/kg	4.5	1
n-Butylbenzene	5.4		ug/kg	0.90	1
sec-Butylbenzene	2.2		ug/kg	0.90	1
tert-Butylbenzene	ND		ug/kg	4.5	1
o-Chlorotoluene	ND		ug/kg	4.5	1
p-Chlorotoluene	ND		ug/kg	4.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1
Hexachlorobutadiene	ND		ug/kg	4.5	1
Isopropylbenzene	ND		ug/kg	0.90	1
p-Isopropyltoluene	3.2		ug/kg	0.90	1
Naphthalene	ND		ug/kg	4.5	1
n-Propylbenzene	ND		ug/kg	0.90	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	1
Ethyl ether	ND		ug/kg	4.5	1



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-07

Date Collected: 06/05/08 09:50

Client ID: SB107-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	1
1,4-Dioxane	ND		ug/kg	450	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	94		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-08  
**Client ID:** SB108-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/09/08 17:43  
**Analyst:** BN  
**Percent Solids:** 90%

**Date Collected:** 06/05/08 09:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	8.2	1
1,1-Dichloroethane	ND		ug/kg	1.2	1
Chloroform	ND		ug/kg	1.2	1
Carbon tetrachloride	ND		ug/kg	0.82	1
1,2-Dichloropropane	ND		ug/kg	2.8	1
Dibromochloromethane	ND		ug/kg	0.82	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	1
Tetrachloroethene	ND		ug/kg	0.82	1
Chlorobenzene	ND		ug/kg	0.82	1
Trichlorofluoromethane	ND		ug/kg	4.1	1
1,2-Dichloroethane	ND		ug/kg	0.82	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	1
Bromodichloromethane	ND		ug/kg	0.82	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	1
1,1-Dichloropropene	ND		ug/kg	4.1	1
Bromoform	ND		ug/kg	3.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	1
Benzene	ND		ug/kg	0.82	1
Toluene	ND		ug/kg	1.2	1
Ethylbenzene	ND		ug/kg	0.82	1
Chloromethane	ND		ug/kg	4.1	1
Bromomethane	ND		ug/kg	1.6	1
Vinyl chloride	ND		ug/kg	1.6	1
Chloroethane	ND		ug/kg	1.6	1
1,1-Dichloroethene	ND		ug/kg	0.82	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	1
Trichloroethene	ND		ug/kg	0.82	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-08

Date Collected: 06/05/08 09:15

Client ID: SB108-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.1	1
Methyl tert butyl ether	ND		ug/kg	1.6	1
p/m-Xylene	ND		ug/kg	1.6	1
o-Xylene	ND		ug/kg	1.6	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	1
Dibromomethane	ND		ug/kg	8.2	1
1,2,3-Trichloropropane	ND		ug/kg	8.2	1
Styrene	ND		ug/kg	1.6	1
Dichlorodifluoromethane	ND		ug/kg	8.2	1
Acetone	23		ug/kg	8.2	1
Carbon disulfide	ND		ug/kg	41	1
2-Butanone	ND		ug/kg	8.2	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1
2-Hexanone	ND		ug/kg	8.2	1
Bromochloromethane	ND		ug/kg	4.1	1
Tetrahydrofuran	ND		ug/kg	16	1
2,2-Dichloropropane	ND		ug/kg	4.1	1
1,2-Dibromoethane	ND		ug/kg	3.3	1
1,3-Dichloropropane	ND		ug/kg	4.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.82	1
Bromobenzene	ND		ug/kg	4.1	1
n-Butylbenzene	ND		ug/kg	0.82	1
sec-Butylbenzene	ND		ug/kg	0.82	1
tert-Butylbenzene	ND		ug/kg	4.1	1
o-Chlorotoluene	ND		ug/kg	4.1	1
p-Chlorotoluene	ND		ug/kg	4.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1
Hexachlorobutadiene	ND		ug/kg	4.1	1
Isopropylbenzene	ND		ug/kg	0.82	1
p-Isopropyltoluene	ND		ug/kg	0.82	1
Naphthalene	ND		ug/kg	4.1	1
n-Propylbenzene	ND		ug/kg	0.82	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	1
Ethyl ether	ND		ug/kg	4.1	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-08

Date Collected: 06/05/08 09:15

Client ID: SB108-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	3.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.3	1
1,4-Dioxane	ND		ug/kg	410	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	91		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Matrix: Soil

Analytical Method: 60,8260B

Analytical Date: 06/09/08 18:20

Analyst: BN

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.5	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.0	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.0	1
Bromoform	ND		ug/kg	4.0	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.0	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.0	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	50	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.0	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.0	1
1,2-Dibromoethane	ND		ug/kg	4.0	1
1,3-Dichloropropane	ND		ug/kg	5.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.0	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.0	1
o-Chlorotoluene	ND		ug/kg	5.0	1
p-Chlorotoluene	ND		ug/kg	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1
Hexachlorobutadiene	ND		ug/kg	5.0	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.0	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	1
Ethyl ether	ND		ug/kg	5.0	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Isopropyl Ether	ND		ug/kg	4.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	1
1,4-Dioxane	ND		ug/kg	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	93		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Matrix: Soil

Analytical Method: 60,8260B

Analytical Date: 06/10/08 15:10

Analyst: BN

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B/5035-Soil Analysis**

Methylene chloride	ND		ug/kg	530	1
1,1-Dichloroethane	ND		ug/kg	80	1
Chloroform	ND		ug/kg	80	1
Carbon tetrachloride	ND		ug/kg	53	1
1,2-Dichloropropane	ND		ug/kg	190	1
Dibromochloromethane	ND		ug/kg	53	1
1,1,2-Trichloroethane	ND		ug/kg	80	1
Tetrachloroethene	ND		ug/kg	53	1
Chlorobenzene	ND		ug/kg	53	1
Trichlorofluoromethane	ND		ug/kg	270	1
1,2-Dichloroethane	ND		ug/kg	53	1
1,1,1-Trichloroethane	ND		ug/kg	53	1
Bromodichloromethane	ND		ug/kg	53	1
trans-1,3-Dichloropropene	ND		ug/kg	53	1
cis-1,3-Dichloropropene	ND		ug/kg	53	1
1,1-Dichloropropene	ND		ug/kg	270	1
Bromoform	ND		ug/kg	210	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	1
Benzene	ND		ug/kg	53	1
Toluene	ND		ug/kg	80	1
Ethylbenzene	ND		ug/kg	53	1
Chloromethane	ND		ug/kg	270	1
Bromomethane	ND		ug/kg	110	1
Vinyl chloride	ND		ug/kg	110	1
Chloroethane	ND		ug/kg	110	1
1,1-Dichloroethene	ND		ug/kg	53	1
trans-1,2-Dichloroethene	ND		ug/kg	80	1
Trichloroethene	ND		ug/kg	53	1
1,2-Dichlorobenzene	ND		ug/kg	270	1
1,3-Dichlorobenzene	ND		ug/kg	270	1



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	270	1
Methyl tert butyl ether	ND		ug/kg	110	1
p/m-Xylene	ND		ug/kg	110	1
o-Xylene	ND		ug/kg	110	1
cis-1,2-Dichloroethene	ND		ug/kg	53	1
Dibromomethane	ND		ug/kg	530	1
1,2,3-Trichloropropane	ND		ug/kg	530	1
Styrene	ND		ug/kg	110	1
Dichlorodifluoromethane	ND		ug/kg	530	1
Acetone	ND		ug/kg	530	1
Carbon disulfide	ND		ug/kg	2700	1
2-Butanone	ND		ug/kg	530	1
4-Methyl-2-pentanone	ND		ug/kg	530	1
2-Hexanone	ND		ug/kg	530	1
Bromochloromethane	ND		ug/kg	270	1
Tetrahydrofuran	ND		ug/kg	1100	1
2,2-Dichloropropane	ND		ug/kg	270	1
1,2-Dibromoethane	ND		ug/kg	210	1
1,3-Dichloropropane	ND		ug/kg	270	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	1
Bromobenzene	ND		ug/kg	270	1
n-Butylbenzene	ND		ug/kg	53	1
sec-Butylbenzene	ND		ug/kg	53	1
tert-Butylbenzene	ND		ug/kg	270	1
o-Chlorotoluene	ND		ug/kg	270	1
p-Chlorotoluene	ND		ug/kg	270	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	1
Hexachlorobutadiene	ND		ug/kg	270	1
Isopropylbenzene	ND		ug/kg	53	1
p-Isopropyltoluene	ND		ug/kg	53	1
Naphthalene	ND		ug/kg	270	1
n-Propylbenzene	ND		ug/kg	53	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	1
1,3,5-Trimethylbenzene	ND		ug/kg	270	1
1,2,4-Trimethylbenzene	ND		ug/kg	270	1
Ethyl ether	ND		ug/kg	270	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-09

Date Collected: 06/02/08 17:30

Client ID: TB101/102-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	210	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	1
1,4-Dioxane	ND		ug/kg	27000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	87		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-10  
**Client ID:** TW101-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 13:40  
**Analyst:** GK

**Date Collected:** 06/05/08 15:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	ND		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
Trichlorofluoromethane	ND		ug/l	250	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
1,1-Dichloropropene	ND		ug/l	250	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Benzene	ND		ug/l	50	100
Toluene	190		ug/l	75	100
Ethylbenzene	1000		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Bromomethane	ND		ug/l	100	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	ND		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-10  
 Client ID: TW101-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 15:30  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B</b>					
1,4-Dichlorobenzene	ND		ug/l	250	100
Methyl tert butyl ether	ND		ug/l	100	100
p/m-Xylene	6300		ug/l	100	100
o-Xylene	1800		ug/l	100	100
cis-1,2-Dichloroethene	ND		ug/l	50	100
Dibromomethane	ND		ug/l	500	100
1,2,3-Trichloropropane	ND		ug/l	500	100
Styrene	ND		ug/l	100	100
Dichlorodifluoromethane	ND		ug/l	500	100
Acetone	ND		ug/l	500	100
Carbon disulfide	ND		ug/l	500	100
2-Butanone	ND		ug/l	500	100
4-Methyl-2-pentanone	ND		ug/l	500	100
2-Hexanone	ND		ug/l	500	100
Bromochloromethane	ND		ug/l	250	100
Tetrahydrofuran	ND		ug/l	1000	100
2,2-Dichloropropane	ND		ug/l	250	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100
Bromobenzene	ND		ug/l	250	100
n-Butylbenzene	82		ug/l	50	100
sec-Butylbenzene	ND		ug/l	50	100
tert-Butylbenzene	ND		ug/l	250	100
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
Isopropylbenzene	180		ug/l	50	100
p-Isopropyltoluene	ND		ug/l	50	100
Naphthalene	370		ug/l	250	100
n-Propylbenzene	300		ug/l	50	100
1,2,3-Trichlorobenzene	ND		ug/l	250	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100
1,3,5-Trimethylbenzene	490		ug/l	250	100
1,2,4-Trimethylbenzene	2000		ug/l	250	100
Ethyl ether	ND		ug/l	250	100

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-10  
 Client ID: TW101-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 15:30  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Isopropyl Ether	ND		ug/l	200	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	100
1,4-Dioxane	ND		ug/l	25000	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-11  
**Client ID:** TW102-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 14:13  
**Analyst:** GK

**Date Collected:** 06/05/08 14:45  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	16		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	ND		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
Trichlorofluoromethane	ND		ug/l	50	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
1,1-Dichloropropene	ND		ug/l	50	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Benzene	ND		ug/l	10	20
Toluene	43		ug/l	15	20
Ethylbenzene	100		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Bromomethane	ND		ug/l	20	20
Vinyl chloride	ND		ug/l	20	20
Chloroethane	20		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	ND		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-11

Date Collected: 06/05/08 14:45

Client ID: TW102-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,4-Dichlorobenzene	ND		ug/l	50	20
Methyl tert butyl ether	ND		ug/l	20	20
p/m-Xylene	600		ug/l	20	20
o-Xylene	290		ug/l	20	20
cis-1,2-Dichloroethene	ND		ug/l	10	20
Dibromomethane	ND		ug/l	100	20
1,2,3-Trichloropropane	ND		ug/l	100	20
Styrene	ND		ug/l	20	20
Dichlorodifluoromethane	ND		ug/l	100	20
Acetone	ND		ug/l	100	20
Carbon disulfide	ND		ug/l	100	20
2-Butanone	ND		ug/l	100	20
4-Methyl-2-pentanone	ND		ug/l	100	20
2-Hexanone	ND		ug/l	100	20
Bromochloromethane	ND		ug/l	50	20
Tetrahydrofuran	ND		ug/l	200	20
2,2-Dichloropropane	ND		ug/l	50	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20
Bromobenzene	ND		ug/l	50	20
n-Butylbenzene	22		ug/l	10	20
sec-Butylbenzene	ND		ug/l	10	20
tert-Butylbenzene	ND		ug/l	50	20
o-Chlorotoluene	ND		ug/l	50	20
p-Chlorotoluene	ND		ug/l	50	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	20
Hexachlorobutadiene	ND		ug/l	12	20
Isopropylbenzene	28		ug/l	10	20
p-Isopropyltoluene	ND		ug/l	10	20
Naphthalene	120		ug/l	50	20
n-Propylbenzene	59		ug/l	10	20
1,2,3-Trichlorobenzene	ND		ug/l	50	20
1,2,4-Trichlorobenzene	ND		ug/l	50	20
1,3,5-Trimethylbenzene	140		ug/l	50	20
1,2,4-Trimethylbenzene	520		ug/l	50	20
Ethyl ether	ND		ug/l	50	20

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-11  
 Client ID: TW102-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 14:45  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B**

Isopropyl Ether	ND		ug/l	40	20
Ethyl-Tert-Butyl-Ether	ND		ug/l	40	20
Tertiary-Amyl Methyl Ether	ND		ug/l	40	20
1,4-Dioxane	ND		ug/l	5000	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-12  
**Client ID:** TW103-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 14:47  
**Analyst:** GK

**Date Collected:** 06/05/08 14:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	3.2		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-12  
 Client ID: TW103-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 14:00  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B**

1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-12  
 Client ID: TW103-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 14:00  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B**

Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-13  
**Client ID:** TW104-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 15:21  
**Analyst:** GK

**Date Collected:** 06/05/08 13:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	2.9		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-13  
 Client ID: TW104-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 13:00  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Organics by MCP 8260B**

1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-13  
 Client ID: TW104-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 13:00  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-14  
**Client ID:** TW106-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 15:54  
**Analyst:** GK

**Date Collected:** 06/05/08 16:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	19		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	6.2		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-14  
 Client ID: TW106-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 16:15  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B</b>					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	34		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	3.7		ug/l	0.50	1
sec-Butylbenzene	3.1		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	3.7		ug/l	0.50	1
p-Isopropyltoluene	2.2		ug/l	0.50	1
Naphthalene	17		ug/l	2.5	1
n-Propylbenzene	5.9		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	8.2		ug/l	2.5	1
1,2,4-Trimethylbenzene	33		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-14  
 Client ID: TW106-W1-060508  
 Sample Location: WELLESLEY, MA

Date Collected: 06/05/08 16:15  
 Date Received: 06/06/08  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-15  
**Client ID:** TB103-TB-060208  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 60,8260B  
**Analytical Date:** 06/11/08 16:28  
**Analyst:** GK

**Date Collected:** 06/02/08 15:45  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	45		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	2.9		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
Trichlorofluoromethane	ND		ug/l	2.5	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	14		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
1,1-Dichloropropene	ND		ug/l	2.5	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Benzene	ND		ug/l	0.50	1
Toluene	ND		ug/l	0.75	1
Ethylbenzene	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Bromomethane	ND		ug/l	1.0	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-15

Date Collected: 06/02/08 15:45

Client ID: TB103-TB-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Volatile Organics by MCP 8260B</b>					
1,4-Dichlorobenzene	ND		ug/l	2.5	1
Methyl tert butyl ether	ND		ug/l	1.0	1
p/m-Xylene	ND		ug/l	1.0	1
o-Xylene	ND		ug/l	1.0	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dibromomethane	ND		ug/l	5.0	1
1,2,3-Trichloropropane	ND		ug/l	5.0	1
Styrene	ND		ug/l	1.0	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
Acetone	ND		ug/l	5.0	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	5.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1
2-Hexanone	ND		ug/l	5.0	1
Bromochloromethane	ND		ug/l	2.5	1
Tetrahydrofuran	ND		ug/l	10	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
Bromobenzene	ND		ug/l	2.5	1
n-Butylbenzene	ND		ug/l	0.50	1
sec-Butylbenzene	ND		ug/l	0.50	1
tert-Butylbenzene	ND		ug/l	2.5	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
Isopropylbenzene	ND		ug/l	0.50	1
p-Isopropyltoluene	ND		ug/l	0.50	1
Naphthalene	ND		ug/l	2.5	1
n-Propylbenzene	ND		ug/l	0.50	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	1
Ethyl ether	ND		ug/l	2.5	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-15

Date Collected: 06/02/08 15:45

Client ID: TB103-TB-060208

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Isopropyl Ether	ND		ug/l	2.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 09:31

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01 Batch: WG324943-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 09:31

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01 Batch: WG324943-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 09:31

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01 Batch: WG324943-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	88		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 10:44

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04-05,07-09 Batch: WG324970-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 10:44

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04-05,07-09 Batch: WG324970-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/09/08 10:44

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04-05,07-09 Batch: WG324970-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/08 12:01

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04 Batch: WG324970-6				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/08 12:01

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04 Batch: WG324970-6				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/08 12:01

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 04 Batch: WG324970-6				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/08 12:01

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 06,09 Batch: WG325129-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/10/08 12:01

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 06,09 Batch: WG325129-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 60,8260B  
**Analytical Date:** 06/10/08 12:01  
**Analyst:** BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 06,09 Batch: WG325129-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 09:56

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 02 Batch: WG325323-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 09:56

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 02 Batch: WG325323-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 09:56

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 02 Batch: WG325323-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 10:52

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 10-15 Batch: WG325338-3				

Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 10:52

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 10-15 Batch: WG325338-3				
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Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/11/08 10:52

Analyst: GK

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 10-15 Batch: WG325338-3				
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1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/12/08 12:09

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 03 Batch: WG325482-3				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/12/08 12:09

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 03 Batch: WG325482-3				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B

Analytical Date: 06/12/08 12:09

Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 03 Batch: WG325482-3				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	114		70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01 Batch: WG324943-1 WG324943-2					
Methylene chloride	88	93	70-130	6	25
1,1-Dichloroethane	88	91	70-130	3	25
Chloroform	86	86	70-130	0	25
Carbon tetrachloride	81	85	70-130	5	25
1,2-Dichloropropane	94	97	70-130	3	25
Dibromochloromethane	92	95	70-130	3	25
1,1,2-Trichloroethane	92	94	70-130	2	25
Tetrachloroethene	96	100	70-130	4	25
Chlorobenzene	95	97	70-130	2	25
Trichlorofluoromethane	82	87	70-130	6	25
1,2-Dichloroethane	81	84	70-130	4	25
1,1,1-Trichloroethane	82	87	70-130	6	25
Bromodichloromethane	85	85	70-130	0	25
trans-1,3-Dichloropropene	88	89	70-130	1	25
cis-1,3-Dichloropropene	92	93	70-130	1	25
1,1-Dichloropropene	86	91	70-130	6	25
Bromoform	95	95	70-130	0	50
1,1,2,2-Tetrachloroethane	93	95	70-130	2	25
Benzene	90	93	70-130	3	25
Toluene	97	101	70-130	4	25
Ethylbenzene	98	101	70-130	3	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01 Batch: WG324943-1 WG324943-2					
Chloromethane	90	92	70-130	2	50
Bromomethane	102	98	70-130	4	50
Vinyl chloride	92	96	70-130	4	25
Chloroethane	86	94	70-130	9	25
1,1-Dichloroethene	85	91	70-130	7	25
trans-1,2-Dichloroethene	86	92	70-130	7	25
Trichloroethene	88	91	70-130	3	25
1,2-Dichlorobenzene	98	101	70-130	3	25
1,3-Dichlorobenzene	100	102	70-130	2	25
1,4-Dichlorobenzene	100	100	70-130	0	25
Methyl tert butyl ether	94	87	70-130	8	25
p/m-Xylene	98	102	70-130	4	25
o-Xylene	105	108	70-130	3	25
cis-1,2-Dichloroethene	91	94	70-130	3	25
Dibromomethane	83	86	70-130	4	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	104	107	70-130	3	25
Dichlorodifluoromethane	83	86	70-130	4	50
Acetone	86	73	70-130	16	50
Carbon disulfide	85	88	70-130	3	25
2-Butanone	85	85	70-130	0	50

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01 Batch: WG324943-1 WG324943-2					
4-Methyl-2-pentanone	89	93	70-130	4	50
2-Hexanone	91	94	70-130	3	50
Bromochloromethane	92	96	70-130	4	25
Tetrahydrofuran	94	94	70-130	0	25
2,2-Dichloropropane	86	85	70-130	1	50
1,2-Dibromoethane	88	92	70-130	4	25
1,3-Dichloropropane	96	98	70-130	2	25
1,1,1,2-Tetrachloroethane	98	101	70-130	3	25
Bromobenzene	98	98	70-130	0	25
n-Butylbenzene	100	104	70-130	4	25
sec-Butylbenzene	98	102	70-130	4	25
tert-Butylbenzene	97	100	70-130	3	25
o-Chlorotoluene	96	98	70-130	2	25
p-Chlorotoluene	99	99	70-130	0	25
1,2-Dibromo-3-chloropropane	87	90	70-130	3	50
Hexachlorobutadiene	101	104	70-130	3	25
Isopropylbenzene	116	120	70-130	3	25
p-Isopropyltoluene	103	105	70-130	2	25
Naphthalene	114	115	70-130	1	25
n-Propylbenzene	96	98	70-130	2	25
1,2,3-Trichlorobenzene	106	108	70-130	2	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01 Batch: WG324943-1 WG324943-2					
1,2,4-Trichlorobenzene	109	109	70-130	0	25
1,3,5-Trimethylbenzene	100	102	70-130	2	25
1,2,4-Trimethylbenzene	99	102	70-130	3	25
Ethyl ether	91	94	70-130	3	25
Isopropyl Ether	98	98	70-130	0	25
Ethyl-Tert-Butyl-Ether	103	95	70-130	8	25
Tertiary-Amyl Methyl Ether	102	98	70-130	4	25
1,4-Dioxane	95	102	70-130	7	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85	83	70-130
Toluene-d8	102	102	70-130
4-Bromofluorobenzene	100	95	70-130
Dibromofluoromethane	92	92	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04-05,07-09 Batch: WG324970-1 WG324970-2					
Methylene chloride	77	73	70-130	5	25
1,1-Dichloroethane	88	86	70-130	2	25
Chloroform	86	85	70-130	1	25
Carbon tetrachloride	80	80	70-130	0	25
1,2-Dichloropropane	92	91	70-130	1	25
Dibromochloromethane	87	88	70-130	1	25
1,1,2-Trichloroethane	90	88	70-130	2	25
Tetrachloroethene	92	92	70-130	0	25
Chlorobenzene	94	93	70-130	1	25
Trichlorofluoromethane	88	86	70-130	2	25
1,2-Dichloroethane	84	85	70-130	1	25
1,1,1-Trichloroethane	83	85	70-130	2	25
Bromodichloromethane	87	84	70-130	4	25
trans-1,3-Dichloropropene	84	82	70-130	2	25
cis-1,3-Dichloropropene	90	88	70-130	2	25
1,1-Dichloropropene	90	92	70-130	2	25
Bromoform	85	85	70-130	0	50
1,1,2,2-Tetrachloroethane	86	86	70-130	0	25
Benzene	93	96	70-130	3	25
Toluene	93	93	70-130	0	25
Ethylbenzene	92	92	70-130	0	25

# Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WORCESTER STREET

**Lab Number:** L0808388

**Project Number:** 086017

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04-05,07-09 Batch: WG324970-1 WG324970-2					
Chloromethane	87	87	70-130	0	50
Bromomethane	114	94	70-130	19	50
Vinyl chloride	96	94	70-130	2	25
Chloroethane	88	85	70-130	3	25
1,1-Dichloroethene	90	86	70-130	5	25
trans-1,2-Dichloroethene	97	96	70-130	1	25
Trichloroethene	94	91	70-130	3	25
1,2-Dichlorobenzene	96	94	70-130	2	25
1,3-Dichlorobenzene	96	95	70-130	1	25
1,4-Dichlorobenzene	96	95	70-130	1	25
Methyl tert butyl ether	104	91	70-130	13	25
p/m-Xylene	95	94	70-130	1	25
o-Xylene	100	98	70-130	2	25
cis-1,2-Dichloroethene	99	97	70-130	2	25
Dibromomethane	94	88	70-130	7	25
1,2,3-Trichloropropane	92	90	70-130	2	25
Styrene	99	97	70-130	2	25
Dichlorodifluoromethane	111	108	70-130	3	50
Acetone	72	70	70-130	3	50
Carbon disulfide	74	72	70-130	3	25
2-Butanone	90	80	70-130	12	50

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04-05,07-09 Batch: WG324970-1 WG324970-2					
4-Methyl-2-pentanone	101	93	70-130	8	50
2-Hexanone	85	80	70-130	6	50
Bromochloromethane	101	96	70-130	5	25
Tetrahydrofuran	93	91	70-130	2	25
2,2-Dichloropropane	88	85	70-130	3	50
1,2-Dibromoethane	94	91	70-130	3	25
1,3-Dichloropropane	88	88	70-130	0	25
1,1,1,2-Tetrachloroethane	90	91	70-130	1	25
Bromobenzene	95	92	70-130	3	25
n-Butylbenzene	97	102	70-130	5	25
sec-Butylbenzene	93	93	70-130	0	25
tert-Butylbenzene	94	93	70-130	1	25
o-Chlorotoluene	89	88	70-130	1	25
p-Chlorotoluene	92	91	70-130	1	25
1,2-Dibromo-3-chloropropane	82	80	70-130	2	50
Hexachlorobutadiene	88	90	70-130	2	25
Isopropylbenzene	114	114	70-130	0	25
p-Isopropyltoluene	102	104	70-130	2	25
Naphthalene	101	115	70-130	13	25
n-Propylbenzene	94	93	70-130	1	25
1,2,3-Trichlorobenzene	107	113	70-130	5	25



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04-05,07-09 Batch: WG324970-1 WG324970-2					
1,2,4-Trichlorobenzene	106	113	70-130	6	25
1,3,5-Trimethylbenzene	98	99	70-130	1	25
1,2,4-Trimethylbenzene	96	101	70-130	5	25
Ethyl ether	87	86	70-130	1	25
Isopropyl Ether	90	89	70-130	1	25
Ethyl-Tert-Butyl-Ether	100	98	70-130	2	25
Tertiary-Amyl Methyl Ether	100	100	70-130	0	25
1,4-Dioxane	114	104	70-130	9	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87	84	70-130
Toluene-d8	98	97	70-130
4-Bromofluorobenzene	96	94	70-130
Dibromofluoromethane	95	96	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04 Batch: WG324970-4 WG324970-5					
Methylene chloride	76	73	70-130	4	25
1,1-Dichloroethane	82	84	70-130	2	25
Chloroform	82	86	70-130	5	25
Carbon tetrachloride	75	78	70-130	4	25
1,2-Dichloropropane	87	89	70-130	2	25
Dibromochloromethane	86	88	70-130	2	25
1,1,2-Trichloroethane	88	87	70-130	1	25
Tetrachloroethene	82	83	70-130	1	25
Chlorobenzene	87	87	70-130	0	25
Trichlorofluoromethane	77	79	70-130	3	25
1,2-Dichloroethane	86	89	70-130	3	25
1,1,1-Trichloroethane	77	82	70-130	6	25
Bromodichloromethane	86	88	70-130	2	25
trans-1,3-Dichloropropene	86	86	70-130	0	25
cis-1,3-Dichloropropene	88	89	70-130	1	25
1,1-Dichloropropene	77	83	70-130	8	25
Bromoform	86	89	70-130	3	50
1,1,2,2-Tetrachloroethane	73	79	70-130	8	25
Benzene	86	92	70-130	7	25
Toluene	85	86	70-130	1	25
Ethylbenzene	84	85	70-130	1	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04 Batch: WG324970-4 WG324970-5					
Chloromethane	82	84	70-130	2	50
Bromomethane	88	87	70-130	1	50
Vinyl chloride	84	86	70-130	2	25
Chloroethane	83	85	70-130	2	25
1,1-Dichloroethene	81	80	70-130	1	25
trans-1,2-Dichloroethene	85	86	70-130	1	25
Trichloroethene	88	86	70-130	2	25
1,2-Dichlorobenzene	88	91	70-130	3	25
1,3-Dichlorobenzene	87	91	70-130	4	25
1,4-Dichlorobenzene	88	91	70-130	3	25
Methyl tert butyl ether	98	96	70-130	2	25
p/m-Xylene	87	88	70-130	1	25
o-Xylene	92	93	70-130	1	25
cis-1,2-Dichloroethene	88	95	70-130	8	25
Dibromomethane	93	94	70-130	1	25
1,2,3-Trichloropropane	92	90	70-130	2	25
Styrene	93	94	70-130	1	25
Dichlorodifluoromethane	90	91	70-130	1	50
Acetone	83	76	70-130	9	50
Carbon disulfide	71	72	70-130	1	25
2-Butanone	87	82	70-130	6	50

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04 Batch: WG324970-4 WG324970-5					
4-Methyl-2-pentanone	99	91	70-130	8	50
2-Hexanone	85	72	70-130	17	50
Bromochloromethane	91	97	70-130	6	25
Tetrahydrofuran	91	81	70-130	12	25
2,2-Dichloropropane	81	83	70-130	2	50
1,2-Dibromoethane	91	90	70-130	1	25
1,3-Dichloropropane	87	88	70-130	1	25
1,1,1,2-Tetrachloroethane	88	90	70-130	2	25
Bromobenzene	89	92	70-130	3	25
n-Butylbenzene	86	88	70-130	2	25
sec-Butylbenzene	81	83	70-130	2	25
tert-Butylbenzene	82	84	70-130	2	25
o-Chlorotoluene	83	86	70-130	4	25
p-Chlorotoluene	86	88	70-130	2	25
1,2-Dibromo-3-chloropropane	83	79	70-130	5	50
Hexachlorobutadiene	74	76	70-130	3	25
Isopropylbenzene	100	105	70-130	5	25
p-Isopropyltoluene	88	91	70-130	3	25
Naphthalene	95	94	70-130	1	25
n-Propylbenzene	83	86	70-130	4	25
1,2,3-Trichlorobenzene	95	96	70-130	1	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 04 Batch: WG324970-4 WG324970-5					
1,2,4-Trichlorobenzene	93	98	70-130	5	25
1,3,5-Trimethylbenzene	88	91	70-130	3	25
1,2,4-Trimethylbenzene	87	92	70-130	6	25
Ethyl ether	90	88	70-130	2	25
Isopropyl Ether	85	87	70-130	2	25
Ethyl-Tert-Butyl-Ether	93	95	70-130	2	25
Tertiary-Amyl Methyl Ether	93	97	70-130	4	25
1,4-Dioxane	110	98	70-130	12	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89	91	70-130
Toluene-d8	95	96	70-130
4-Bromofluorobenzene	93	97	70-130
Dibromofluoromethane	95	100	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 06,09 Batch: WG325129-1 WG325129-2					
Methylene chloride	76	73	70-130	4	25
1,1-Dichloroethane	82	84	70-130	2	25
Chloroform	82	86	70-130	5	25
Carbon tetrachloride	75	78	70-130	4	25
1,2-Dichloropropane	87	89	70-130	2	25
Dibromochloromethane	86	88	70-130	2	25
1,1,2-Trichloroethane	88	87	70-130	1	25
Tetrachloroethene	82	83	70-130	1	25
Chlorobenzene	87	87	70-130	0	25
Trichlorofluoromethane	77	79	70-130	3	25
1,2-Dichloroethane	86	89	70-130	3	25
1,1,1-Trichloroethane	77	82	70-130	6	25
Bromodichloromethane	86	88	70-130	2	25
trans-1,3-Dichloropropene	86	86	70-130	0	25
cis-1,3-Dichloropropene	88	89	70-130	1	25
1,1-Dichloropropene	77	83	70-130	8	25
Bromoform	86	89	70-130	3	50
1,1,2,2-Tetrachloroethane	73	79	70-130	8	25
Benzene	86	92	70-130	7	25
Toluene	85	86	70-130	1	25
Ethylbenzene	84	85	70-130	1	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 06,09 Batch: WG325129-1 WG325129-2					
Chloromethane	82	84	70-130	2	50
Bromomethane	88	87	70-130	1	50
Vinyl chloride	84	86	70-130	2	25
Chloroethane	83	85	70-130	2	25
1,1-Dichloroethene	81	80	70-130	1	25
trans-1,2-Dichloroethene	85	86	70-130	1	25
Trichloroethene	88	86	70-130	2	25
1,2-Dichlorobenzene	88	91	70-130	3	25
1,3-Dichlorobenzene	87	91	70-130	4	25
1,4-Dichlorobenzene	88	91	70-130	3	25
Methyl tert butyl ether	98	96	70-130	2	25
p/m-Xylene	87	88	70-130	1	25
o-Xylene	92	93	70-130	1	25
cis-1,2-Dichloroethene	88	95	70-130	8	25
Dibromomethane	93	94	70-130	1	25
1,2,3-Trichloropropane	92	90	70-130	2	25
Styrene	93	94	70-130	1	25
Dichlorodifluoromethane	90	91	70-130	1	50
Acetone	83	76	70-130	9	50
Carbon disulfide	71	72	70-130	1	25
2-Butanone	87	82	70-130	6	50

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 06,09 Batch: WG325129-1 WG325129-2					
4-Methyl-2-pentanone	99	91	70-130	8	50
2-Hexanone	85	72	70-130	17	50
Bromochloromethane	91	97	70-130	6	25
Tetrahydrofuran	91	81	70-130	12	25
2,2-Dichloropropane	81	83	70-130	2	50
1,2-Dibromoethane	91	90	70-130	1	25
1,3-Dichloropropane	87	88	70-130	1	25
1,1,1,2-Tetrachloroethane	88	90	70-130	2	25
Bromobenzene	89	92	70-130	3	25
n-Butylbenzene	86	88	70-130	2	25
sec-Butylbenzene	81	83	70-130	2	25
tert-Butylbenzene	82	84	70-130	2	25
o-Chlorotoluene	83	86	70-130	4	25
p-Chlorotoluene	86	88	70-130	2	25
1,2-Dibromo-3-chloropropane	83	79	70-130	5	50
Hexachlorobutadiene	74	76	70-130	3	25
Isopropylbenzene	100	105	70-130	5	25
p-Isopropyltoluene	88	91	70-130	3	25
Naphthalene	95	94	70-130	1	25
n-Propylbenzene	83	86	70-130	4	25
1,2,3-Trichlorobenzene	95	96	70-130	1	25



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 06,09 Batch: WG325129-1 WG325129-2					
1,2,4-Trichlorobenzene	93	98	70-130	5	25
1,3,5-Trimethylbenzene	88	91	70-130	3	25
1,2,4-Trimethylbenzene	87	92	70-130	6	25
Ethyl ether	90	88	70-130	2	25
Isopropyl Ether	85	87	70-130	2	25
Ethyl-Tert-Butyl-Ether	93	95	70-130	2	25
Tertiary-Amyl Methyl Ether	93	97	70-130	4	25
1,4-Dioxane	110	98	70-130	12	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89	91	70-130
Toluene-d8	95	96	70-130
4-Bromofluorobenzene	93	97	70-130
Dibromofluoromethane	95	100	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 02 Batch: WG325323-1 WG325323-2					
Methylene chloride	76	81	70-130	6	25
1,1-Dichloroethane	89	91	70-130	2	25
Chloroform	89	93	70-130	4	25
Carbon tetrachloride	87	92	70-130	6	25
1,2-Dichloropropane	93	95	70-130	2	25
Dibromochloromethane	93	94	70-130	1	25
1,1,2-Trichloroethane	92	94	70-130	2	25
Tetrachloroethene	92	96	70-130	4	25
Chlorobenzene	93	96	70-130	3	25
Trichlorofluoromethane	96	99	70-130	3	25
1,2-Dichloroethane	96	95	70-130	1	25
1,1,1-Trichloroethane	89	94	70-130	5	25
Bromodichloromethane	93	93	70-130	0	25
trans-1,3-Dichloropropene	92	94	70-130	2	25
cis-1,3-Dichloropropene	93	94	70-130	1	25
1,1-Dichloropropene	88	94	70-130	7	25
Bromoform	88	89	70-130	1	50
1,1,2,2-Tetrachloroethane	72	74	70-130	3	25
Benzene	98	100	70-130	2	25
Toluene	94	97	70-130	3	25
Ethylbenzene	94	98	70-130	4	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 02 Batch: WG325323-1 WG325323-2					
Chloromethane	91	97	70-130	6	50
Bromomethane	117	108	70-130	8	50
Vinyl chloride	100	104	70-130	4	25
Chloroethane	95	97	70-130	2	25
1,1-Dichloroethene	94	96	70-130	2	25
trans-1,2-Dichloroethene	92	96	70-130	4	25
Trichloroethene	98	98	70-130	0	25
1,2-Dichlorobenzene	93	96	70-130	3	25
1,3-Dichlorobenzene	94	97	70-130	3	25
1,4-Dichlorobenzene	94	97	70-130	3	25
Methyl tert butyl ether	99	98	70-130	1	25
p/m-Xylene	96	99	70-130	3	25
o-Xylene	100	104	70-130	4	25
cis-1,2-Dichloroethene	97	102	70-130	5	25
Dibromomethane	98	98	70-130	0	25
1,2,3-Trichloropropane	92	94	70-130	2	25
Styrene	101	105	70-130	4	25
Dichlorodifluoromethane	114	118	70-130	3	50
Acetone	73	71	70-130	3	50
Carbon disulfide	75	78	70-130	4	25
2-Butanone	85	84	70-130	1	50

# Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 02 Batch: WG325323-1 WG325323-2					
4-Methyl-2-pentanone	101	96	70-130	5	50
2-Hexanone	83	81	70-130	2	50
Bromochloromethane	98	104	70-130	6	25
Tetrahydrofuran	84	91	70-130	8	25
2,2-Dichloropropane	91	94	70-130	3	50
1,2-Dibromoethane	94	95	70-130	1	25
1,3-Dichloropropane	92	93	70-130	1	25
1,1,1,2-Tetrachloroethane	95	98	70-130	3	25
Bromobenzene	92	95	70-130	3	25
n-Butylbenzene	94	101	70-130	7	25
sec-Butylbenzene	90	96	70-130	6	25
tert-Butylbenzene	90	96	70-130	6	25
o-Chlorotoluene	89	94	70-130	5	25
p-Chlorotoluene	92	96	70-130	4	25
1,2-Dibromo-3-chloropropane	86	81	70-130	6	50
Hexachlorobutadiene	85	90	70-130	6	25
Isopropylbenzene	110	116	70-130	5	25
p-Isopropyltoluene	98	103	70-130	5	25
Naphthalene	85	97	70-130	13	25
n-Propylbenzene	91	97	70-130	6	25
1,2,3-Trichlorobenzene	97	100	70-130	3	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 02 Batch: WG325323-1 WG325323-2					
1,2,4-Trichlorobenzene	96	98	70-130	2	25
1,3,5-Trimethylbenzene	93	100	70-130	7	25
1,2,4-Trimethylbenzene	90	100	70-130	11	25
Ethyl ether	90	90	70-130	0	25
Isopropyl Ether	86	88	70-130	2	25
Ethyl-Tert-Butyl-Ether	95	99	70-130	4	25
Tertiary-Amyl Methyl Ether	95	99	70-130	4	25
1,4-Dioxane	107	101	70-130	6	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100	94	70-130
Toluene-d8	102	99	70-130
4-Bromofluorobenzene	101	98	70-130
Dibromofluoromethane	104	102	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 10-15 Batch: WG325338-1 WG325338-2					
Methylene chloride	84	88	70-130	5	25
1,1-Dichloroethane	106	107	70-130	1	25
Chloroform	105	107	70-130	2	25
Carbon tetrachloride	107	107	70-130	0	25
1,2-Dichloropropane	108	107	70-130	1	25
Dibromochloromethane	103	105	70-130	2	25
1,1,2-Trichloroethane	104	108	70-130	4	25
Tetrachloroethene	101	104	70-130	3	25
Chlorobenzene	106	108	70-130	2	25
Trichlorofluoromethane	123	123	70-130	0	25
1,2-Dichloroethane	112	113	70-130	1	25
1,1,1-Trichloroethane	105	107	70-130	2	25
Bromodichloromethane	111	110	70-130	1	25
trans-1,3-Dichloropropene	103	102	70-130	1	25
cis-1,3-Dichloropropene	105	105	70-130	0	25
1,1-Dichloropropene	105	108	70-130	3	25
Bromoform	106	106	70-130	0	50
1,1,2,2-Tetrachloroethane	105	103	70-130	2	25
Benzene	107	111	70-130	4	25
Toluene	107	109	70-130	2	25
Ethylbenzene	108	111	70-130	3	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 10-15 Batch: WG325338-1 WG325338-2					
Chloromethane	93	97	70-130	4	50
Bromomethane	114	122	70-130	7	50
Vinyl chloride	95	98	70-130	3	25
Chloroethane	117	117	70-130	0	25
1,1-Dichloroethene	102	102	70-130	0	25
trans-1,2-Dichloroethene	101	102	70-130	1	25
Trichloroethene	105	107	70-130	2	25
1,2-Dichlorobenzene	105	108	70-130	3	25
1,3-Dichlorobenzene	108	111	70-130	3	25
1,4-Dichlorobenzene	107	109	70-130	2	25
Methyl tert butyl ether	102	100	70-130	2	25
p/m-Xylene	108	112	70-130	4	25
o-Xylene	110	112	70-130	2	25
cis-1,2-Dichloroethene	103	106	70-130	3	25
Dibromomethane	104	103	70-130	1	25
1,2,3-Trichloropropane	114	117	70-130	3	25
Styrene	108	109	70-130	1	25
Dichlorodifluoromethane	81	88	70-130	8	50
Acetone	94	96	70-130	2	50
Carbon disulfide	96	96	70-130	0	25
2-Butanone	108	104	70-130	4	50

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 10-15 Batch: WG325338-1 WG325338-2					
4-Methyl-2-pentanone	98	100	70-130	2	50
2-Hexanone	103	104	70-130	1	50
Bromochloromethane	104	100	70-130	4	25
Tetrahydrofuran	109	100	70-130	9	25
2,2-Dichloropropane	112	111	70-130	1	50
1,2-Dibromoethane	101	102	70-130	1	25
1,3-Dichloropropane	104	104	70-130	0	25
1,1,1,2-Tetrachloroethane	108	106	70-130	2	25
Bromobenzene	106	108	70-130	2	25
n-Butylbenzene	113	117	70-130	3	25
sec-Butylbenzene	110	114	70-130	4	25
tert-Butylbenzene	109	113	70-130	4	25
o-Chlorotoluene	128	129	70-130	1	25
p-Chlorotoluene	114	116	70-130	2	25
1,2-Dibromo-3-chloropropane	113	100	70-130	12	50
Hexachlorobutadiene	104	110	70-130	6	25
Isopropylbenzene	126	130	70-130	3	25
p-Isopropyltoluene	112	115	70-130	3	25
Naphthalene	88	88	70-130	0	25
n-Propylbenzene	114	117	70-130	3	25
1,2,3-Trichlorobenzene	100	103	70-130	3	25



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 10-15 Batch: WG325338-1 WG325338-2					
1,2,4-Trichlorobenzene	103	105	70-130	2	25
1,3,5-Trimethylbenzene	109	115	70-130	5	25
1,2,4-Trimethylbenzene	110	114	70-130	4	25
Ethyl ether	102	102	70-130	0	25
Isopropyl Ether	110	110	70-130	0	25
Ethyl-Tert-Butyl-Ether	107	102	70-130	5	25
Tertiary-Amyl Methyl Ether	100	99	70-130	1	25
1,4-Dioxane	123	116	70-130	6	50
1,1,2-Trichloro-1,2,2-Trifluoroethane	108	109	70-130	1	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103	105	70-130
Toluene-d8	101	102	70-130
4-Bromofluorobenzene	104	104	70-130
Dibromofluoromethane	100	99	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 03 Batch: WG325482-1 WG325482-2					
Methylene chloride	86	81	70-130	6	25
1,1-Dichloroethane	94	91	70-130	3	25
Chloroform	95	94	70-130	1	25
Carbon tetrachloride	99	96	70-130	3	25
1,2-Dichloropropane	95	94	70-130	1	25
Dibromochloromethane	95	92	70-130	3	25
1,1,2-Trichloroethane	92	91	70-130	1	25
Tetrachloroethene	96	95	70-130	1	25
Chlorobenzene	95	94	70-130	1	25
Trichlorofluoromethane	114	108	70-130	5	25
1,2-Dichloroethane	99	96	70-130	3	25
1,1,1-Trichloroethane	98	99	70-130	1	25
Bromodichloromethane	98	96	70-130	2	25
trans-1,3-Dichloropropene	90	87	70-130	3	25
cis-1,3-Dichloropropene	93	92	70-130	1	25
1,1-Dichloropropene	94	95	70-130	1	25
Bromoform	91	87	70-130	4	50
1,1,2,2-Tetrachloroethane	79	77	70-130	3	25
Benzene	101	101	70-130	0	25
Toluene	96	93	70-130	3	25
Ethylbenzene	97	95	70-130	2	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 03 Batch: WG325482-1 WG325482-2					
Chloromethane	103	104	70-130	1	50
Bromomethane	128	112	70-130	13	50
Vinyl chloride	119	112	70-130	6	25
Chloroethane	104	103	70-130	1	25
1,1-Dichloroethene	102	100	70-130	2	25
trans-1,2-Dichloroethene	98	96	70-130	2	25
Trichloroethene	100	96	70-130	4	25
1,2-Dichlorobenzene	95	93	70-130	2	25
1,3-Dichlorobenzene	96	94	70-130	2	25
1,4-Dichlorobenzene	95	94	70-130	1	25
Methyl tert butyl ether	91	89	70-130	2	25
p/m-Xylene	99	98	70-130	1	25
o-Xylene	100	97	70-130	3	25
cis-1,2-Dichloroethene	102	100	70-130	2	25
Dibromomethane	102	99	70-130	3	25
1,2,3-Trichloropropane	92	88	70-130	4	25
Styrene	100	98	70-130	2	25
Dichlorodifluoromethane	127	146	70-130	14	50
Acetone	108	83	70-130	26	50
Carbon disulfide	69	66	70-130	4	25
2-Butanone	73	71	70-130	3	50

# Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 03 Batch: WG325482-1 WG325482-2					
4-Methyl-2-pentanone	84	79	70-130	6	50
2-Hexanone	69	67	70-130	3	50
Bromochloromethane	102	104	70-130	2	25
Tetrahydrofuran	71	78	70-130	9	25
2,2-Dichloropropane	97	96	70-130	1	50
1,2-Dibromoethane	92	92	70-130	0	25
1,3-Dichloropropane	91	89	70-130	2	25
1,1,1,2-Tetrachloroethane	98	97	70-130	1	25
Bromobenzene	96	92	70-130	4	25
n-Butylbenzene	88	94	70-130	7	25
sec-Butylbenzene	91	90	70-130	1	25
tert-Butylbenzene	93	91	70-130	2	25
o-Chlorotoluene	93	91	70-130	2	25
p-Chlorotoluene	95	92	70-130	3	25
1,2-Dibromo-3-chloropropane	82	79	70-130	4	50
Hexachlorobutadiene	87	84	70-130	4	25
Isopropylbenzene	115	110	70-130	4	25
p-Isopropyltoluene	96	98	70-130	2	25
Naphthalene	80	93	70-130	15	25
n-Propylbenzene	94	92	70-130	2	25
1,2,3-Trichlorobenzene	92	94	70-130	2	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 03 Batch: WG325482-1 WG325482-2					
1,2,4-Trichlorobenzene	90	92	70-130	2	25
1,3,5-Trimethylbenzene	94	97	70-130	3	25
1,2,4-Trimethylbenzene	87	97	70-130	11	25
Ethyl ether	87	83	70-130	5	25
Isopropyl Ether	80	80	70-130	0	25
Ethyl-Tert-Butyl-Ether	87	90	70-130	3	25
Tertiary-Amyl Methyl Ether	90	92	70-130	2	25
1,4-Dioxane	98	93	70-130	5	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122	101	70-130
Toluene-d8	110	100	70-130
4-Bromofluorobenzene	109	99	70-130
Dibromofluoromethane	126	114	70-130

# **PETROLEUM HYDROCARBONS**

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-01  
**Client ID:** SB101-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/10/08 02:05  
**Analyst:** TT  
**Percent Solids:** 87%

**Date Collected:** 06/05/08 12:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1.4

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	859		mg/kg	127	50
C9-C12 Aliphatics, Unadjusted	1400		mg/kg	127	50
C9-C10 Aromatics	1100		mg/kg	127	50
C5-C8 Aliphatics, Adjusted	859		mg/kg	127	50
C9-C12 Aliphatics, Adjusted	ND		mg/kg	127	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	ND		70-130
2,5-Dibromotoluene-FID	ND		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-01  
**Client ID:** SB101-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 14:56  
**Analyst:** MF  
**Percent Solids:** 87%

**Date Collected:** 06/05/08 12:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Extractable Petroleum Hydrocarbons

C9-C18 Aliphatics	47.2		mg/kg	7.66	1
C19-C36 Aliphatics	9.19		mg/kg	7.66	1
C11-C22 Aromatics	37.2		mg/kg	7.66	1
C11-C22 Aromatics, Adjusted	30.1		mg/kg	7.66	1
Naphthalene	3.46		mg/kg	0.383	1
2-Methylnaphthalene	3.66		mg/kg	0.383	1
Acenaphthylene	ND		mg/kg	0.383	1
Acenaphthene	ND		mg/kg	0.383	1
Fluorene	ND		mg/kg	0.383	1
Phenanthrene	ND		mg/kg	0.383	1
Anthracene	ND		mg/kg	0.383	1
Fluoranthene	ND		mg/kg	0.383	1
Pyrene	ND		mg/kg	0.383	1
Benzo(a)anthracene	ND		mg/kg	0.383	1
Chrysene	ND		mg/kg	0.383	1
Benzo(b)fluoranthene	ND		mg/kg	0.383	1
Benzo(k)fluoranthene	ND		mg/kg	0.383	1
Benzo(a)pyrene	ND		mg/kg	0.383	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.383	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.383	1
Benzo(ghi)perylene	ND		mg/kg	0.383	1



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-01

Date Collected: 06/05/08 12:00

Client ID: SB101-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	83		40-140
2-Fluorobiphenyl	100		40-140
2-Bromonaphthalene	92		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-02  
**Client ID:** SB102-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 13:05  
**Analyst:** TT  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 11:20  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	2.80	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	2.80	1
C9-C10 Aromatics	ND		mg/kg	2.80	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.80	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.80	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	112		70-130
2,5-Dibromotoluene-FID	108		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-02  
**Client ID:** SB102-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 14:56  
**Analyst:** MF  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 11:20  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons</b>					
C9-C18 Aliphatics	ND		mg/kg	7.49	1
C19-C36 Aliphatics	ND		mg/kg	7.49	1
C11-C22 Aromatics	ND		mg/kg	7.49	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.49	1
Naphthalene	ND		mg/kg	0.374	1
2-Methylnaphthalene	ND		mg/kg	0.374	1
Acenaphthylene	ND		mg/kg	0.374	1
Acenaphthene	ND		mg/kg	0.374	1
Fluorene	ND		mg/kg	0.374	1
Phenanthrene	ND		mg/kg	0.374	1
Anthracene	ND		mg/kg	0.374	1
Fluoranthene	ND		mg/kg	0.374	1
Pyrene	ND		mg/kg	0.374	1
Benzo(a)anthracene	ND		mg/kg	0.374	1
Chrysene	ND		mg/kg	0.374	1
Benzo(b)fluoranthene	ND		mg/kg	0.374	1
Benzo(k)fluoranthene	ND		mg/kg	0.374	1
Benzo(a)pyrene	ND		mg/kg	0.374	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.374	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.374	1
Benzo(ghi)perylene	ND		mg/kg	0.374	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-02

Date Collected: 06/05/08 11:20

Client ID: SB102-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	85		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	80		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-03  
**Client ID:** SB103-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 13:58  
**Analyst:** TT  
**Percent Solids:** 85%

**Date Collected:** 06/05/08 10:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Sample Temperature upon receipt:	Received on Ice
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	3.01	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	3.01	1
C9-C10 Aromatics	ND		mg/kg	3.01	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.01	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	114		70-130
2,5-Dibromotoluene-FID	110		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-03  
**Client ID:** SB103-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 15:33  
**Analyst:** MF  
**Percent Solids:** 85%

**Date Collected:** 06/05/08 10:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Extractable Petroleum Hydrocarbons

C9-C18 Aliphatics	ND		mg/kg	7.84	1
C19-C36 Aliphatics	33.6		mg/kg	7.84	1
C11-C22 Aromatics	23.7		mg/kg	7.84	1
C11-C22 Aromatics, Adjusted	22.4		mg/kg	7.84	1
Naphthalene	ND		mg/kg	0.392	1
2-Methylnaphthalene	ND		mg/kg	0.392	1
Acenaphthylene	ND		mg/kg	0.392	1
Acenaphthene	ND		mg/kg	0.392	1
Fluorene	ND		mg/kg	0.392	1
Phenanthrene	ND		mg/kg	0.392	1
Anthracene	ND		mg/kg	0.392	1
Fluoranthene	0.691		mg/kg	0.392	1
Pyrene	0.574		mg/kg	0.392	1
Benzo(a)anthracene	ND		mg/kg	0.392	1
Chrysene	ND		mg/kg	0.392	1
Benzo(b)fluoranthene	ND		mg/kg	0.392	1
Benzo(k)fluoranthene	ND		mg/kg	0.392	1
Benzo(a)pyrene	ND		mg/kg	0.392	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.392	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.392	1
Benzo(ghi)perylene	ND		mg/kg	0.392	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-03

Date Collected: 06/05/08 10:50

Client ID: SB103-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	70		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 14:51  
**Analyst:** TT  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	3.30	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	3.30	1
C9-C10 Aromatics	ND		mg/kg	3.30	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.30	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	108		70-130



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 15:33  
**Analyst:** MF  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons</b>					
C9-C18 Aliphatics	ND		mg/kg	8.03	1
C19-C36 Aliphatics	35.2		mg/kg	8.03	1
C11-C22 Aromatics	37.3		mg/kg	8.03	1
C11-C22 Aromatics, Adjusted	36.0		mg/kg	8.03	1
Naphthalene	ND		mg/kg	0.402	1
2-Methylnaphthalene	ND		mg/kg	0.402	1
Acenaphthylene	ND		mg/kg	0.402	1
Acenaphthene	ND		mg/kg	0.402	1
Fluorene	ND		mg/kg	0.402	1
Phenanthrene	ND		mg/kg	0.402	1
Anthracene	ND		mg/kg	0.402	1
Fluoranthene	0.434		mg/kg	0.402	1
Pyrene	0.435		mg/kg	0.402	1
Benzo(a)anthracene	ND		mg/kg	0.402	1
Chrysene	ND		mg/kg	0.402	1
Benzo(b)fluoranthene	ND		mg/kg	0.402	1
Benzo(k)fluoranthene	0.438		mg/kg	0.402	1
Benzo(a)pyrene	ND		mg/kg	0.402	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.402	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.402	1
Benzo(ghi)perylene	ND		mg/kg	0.402	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-04

Date Collected: 06/05/08 10:30

Client ID: SB104-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	85		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	83		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-05  
**Client ID:** SB105-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 15:45  
**Analyst:** TT  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 08:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Sample Temperature upon receipt:	Received on Ice
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	2.97	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	2.97	1
C9-C10 Aromatics	ND		mg/kg	2.97	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.97	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.97	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	116		70-130
2,5-Dibromotoluene-FID	114		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-05  
**Client ID:** SB105-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 14:20  
**Analyst:** MF  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 08:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons</b>					
C9-C18 Aliphatics	ND		mg/kg	7.49	1
C19-C36 Aliphatics	ND		mg/kg	7.49	1
C11-C22 Aromatics	ND		mg/kg	7.49	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.49	1
Naphthalene	ND		mg/kg	0.374	1
2-Methylnaphthalene	ND		mg/kg	0.374	1
Acenaphthylene	ND		mg/kg	0.374	1
Acenaphthene	ND		mg/kg	0.374	1
Fluorene	ND		mg/kg	0.374	1
Phenanthrene	ND		mg/kg	0.374	1
Anthracene	ND		mg/kg	0.374	1
Fluoranthene	ND		mg/kg	0.374	1
Pyrene	ND		mg/kg	0.374	1
Benzo(a)anthracene	ND		mg/kg	0.374	1
Chrysene	ND		mg/kg	0.374	1
Benzo(b)fluoranthene	ND		mg/kg	0.374	1
Benzo(k)fluoranthene	ND		mg/kg	0.374	1
Benzo(a)pyrene	ND		mg/kg	0.374	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.374	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.374	1
Benzo(ghi)perylene	ND		mg/kg	0.374	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-05

Date Collected: 06/05/08 08:30

Client ID: SB105-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	73		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	72		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-06  
**Client ID:** SB106-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/10/08 01:13  
**Analyst:** TT  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 12:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Aqueous Preservative:	Laboratory Provided Preserved Container
Were samples received in methanol?	Yes (Covering the Soil)
Sample Temperature upon receipt:	Received on Ice
Methanol ratio:	1:1.4

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	36.5		mg/kg	9.88	4
C9-C12 Aliphatics, Unadjusted	384		mg/kg	9.88	4
C9-C10 Aromatics	282		mg/kg	9.88	4
C5-C8 Aliphatics, Adjusted	36.5		mg/kg	9.88	4
C9-C12 Aliphatics, Adjusted	96.8		mg/kg	9.88	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	77		70-130
2,5-Dibromotoluene-FID	82		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-06  
**Client ID:** SB106-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 15:25  
**Analyst:** MF  
**Percent Solids:** 89%

**Date Collected:** 06/05/08 12:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

**Condition of sample received:** Satisfactory  
**Sample Temperature upon receipt:** Received on Ice  
**Sample Extraction method:** Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons</b>					
C9-C18 Aliphatics	102		mg/kg	7.49	1
C19-C36 Aliphatics	28.1		mg/kg	7.49	1
C11-C22 Aromatics	126		mg/kg	7.49	1
C11-C22 Aromatics, Adjusted	122		mg/kg	7.49	1
Naphthalene	0.471		mg/kg	0.374	1
2-Methylnaphthalene	2.44		mg/kg	0.374	1
Acenaphthylene	ND		mg/kg	0.374	1
Acenaphthene	0.458		mg/kg	0.374	1
Fluorene	ND		mg/kg	0.374	1
Phenanthrene	ND		mg/kg	0.374	1
Anthracene	ND		mg/kg	0.374	1
Fluoranthene	ND		mg/kg	0.374	1
Pyrene	ND		mg/kg	0.374	1
Benzo(a)anthracene	ND		mg/kg	0.374	1
Chrysene	ND		mg/kg	0.374	1
Benzo(b)fluoranthene	ND		mg/kg	0.374	1
Benzo(k)fluoranthene	ND		mg/kg	0.374	1
Benzo(a)pyrene	ND		mg/kg	0.374	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.374	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.374	1
Benzo(ghi)perylene	ND		mg/kg	0.374	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-06

Date Collected: 06/05/08 12:30

Client ID: SB106-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	98		40-140
2-Fluorobiphenyl	104		40-140
2-Bromonaphthalene	117		40-140



**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-07  
**Client ID:** SB107-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 16:40  
**Analyst:** TT  
**Percent Solids:** 92%

**Date Collected:** 06/05/08 09:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons**

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	2.74	1
C9-C12 Aliphatics, Unadjusted	4.03		mg/kg	2.74	1
C9-C10 Aromatics	ND		mg/kg	2.74	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.74	1
C9-C12 Aliphatics, Adjusted	4.03		mg/kg	2.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	116		70-130
2,5-Dibromotoluene-FID	112		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-07  
**Client ID:** SB107-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 13:58  
**Analyst:** MF  
**Percent Solids:** 92%

**Date Collected:** 06/05/08 09:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Extractable Petroleum Hydrocarbons

C9-C18 Aliphatics	8.26		mg/kg	7.25	1
C19-C36 Aliphatics	103		mg/kg	7.25	1
C11-C22 Aromatics	30.5		mg/kg	7.25	1
C11-C22 Aromatics, Adjusted	30.5		mg/kg	7.25	1
Naphthalene	ND		mg/kg	0.362	1
2-Methylnaphthalene	ND		mg/kg	0.362	1
Acenaphthylene	ND		mg/kg	0.362	1
Acenaphthene	ND		mg/kg	0.362	1
Fluorene	ND		mg/kg	0.362	1
Phenanthrene	ND		mg/kg	0.362	1
Anthracene	ND		mg/kg	0.362	1
Fluoranthene	ND		mg/kg	0.362	1
Pyrene	ND		mg/kg	0.362	1
Benzo(a)anthracene	ND		mg/kg	0.362	1
Chrysene	ND		mg/kg	0.362	1
Benzo(b)fluoranthene	ND		mg/kg	0.362	1
Benzo(k)fluoranthene	ND		mg/kg	0.362	1
Benzo(a)pyrene	ND		mg/kg	0.362	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.362	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.362	1
Benzo(ghi)perylene	ND		mg/kg	0.362	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-07

Date Collected: 06/05/08 09:50

Client ID: SB107-S2-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	81		40-140
2-Fluorobiphenyl	82		40-140
2-Bromonaphthalene	75		40-140

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-08  
**Client ID:** SB108-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 17:32  
**Analyst:** TT  
**Percent Solids:** 90%

**Date Collected:** 06/05/08 09:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons**

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	3.00	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	3.00	1
C9-C10 Aromatics	ND		mg/kg	3.00	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.00	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	117		70-130
2,5-Dibromotoluene-FID	111		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-08  
**Client ID:** SB108-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 14:27  
**Analyst:** MF  
**Percent Solids:** 90%

**Date Collected:** 06/05/08 09:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 06/13/08 09:00

### Quality Control Information

Condition of sample received: Satisfactory  
Sample Temperature upon receipt: Received on Ice  
Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Extractable Petroleum Hydrocarbons

C9-C18 Aliphatics	ND		mg/kg	7.41	1
C19-C36 Aliphatics	19.3		mg/kg	7.41	1
C11-C22 Aromatics	ND		mg/kg	7.41	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.41	1
Naphthalene	ND		mg/kg	0.370	1
2-Methylnaphthalene	ND		mg/kg	0.370	1
Acenaphthylene	ND		mg/kg	0.370	1
Acenaphthene	ND		mg/kg	0.370	1
Fluorene	ND		mg/kg	0.370	1
Phenanthrene	ND		mg/kg	0.370	1
Anthracene	ND		mg/kg	0.370	1
Fluoranthene	ND		mg/kg	0.370	1
Pyrene	ND		mg/kg	0.370	1
Benzo(a)anthracene	ND		mg/kg	0.370	1
Chrysene	ND		mg/kg	0.370	1
Benzo(b)fluoranthene	ND		mg/kg	0.370	1
Benzo(k)fluoranthene	ND		mg/kg	0.370	1
Benzo(a)pyrene	ND		mg/kg	0.370	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.370	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.370	1
Benzo(ghi)perylene	ND		mg/kg	0.370	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-08

Date Collected: 06/05/08 09:15

Client ID: SB108-S1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	81		40-140
2-Fluorobiphenyl	87		40-140
2-Bromonaphthalene	82		40-140

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS****Lab ID:** L0808388-09**Date Collected:** 06/02/08 17:30**Client ID:** TB101/102-060208**Date Received:** 06/06/08**Sample Location:** WELLESLEY, MA**Field Prep:** Not Specified**Matrix:** Soil**Analytical Method:** 59, VPH-04-1.1**Analytical Date:** 06/09/08 12:13**Analyst:** TT**Percent Solids:** Results are reported on an 'AS RECEIVED' basis.**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes
Methanol ratio:	Not Applicable

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons**

C5-C8 Aliphatics, Unadjusted	ND		mg/kg	2.67	1
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	2.67	1
C9-C10 Aromatics	ND		mg/kg	2.67	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		70-130
2,5-Dibromotoluene-FID	113		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-10  
**Client ID:** TW101-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 19:37  
**Analyst:** TT

**Date Collected:** 06/05/08 15:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		ug/l	2500	50
C9-C12 Aliphatics, Unadjusted	10600		ug/l	2500	50
C9-C10 Aromatics	4410		ug/l	2500	50
C5-C8 Aliphatics, Adjusted	ND		ug/l	2500	50
C9-C12 Aliphatics, Adjusted	ND		ug/l	2500	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	86		70-130
2,5-Dibromotoluene-FID	88		70-130



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-10  
**Client ID:** TW101-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 10:18  
**Analyst:** MF

**Date Collected:** 06/05/08 15:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/07/08 12:30

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### EPH with MS Targets

C9-C18 Aliphatics	1720		ug/l	102	1
C19-C36 Aliphatics	212		ug/l	102	1
C11-C22 Aromatics	1260		ug/l	102	1
C11-C22 Aromatics, Adjusted	1200		ug/l	102	1
Naphthalene	168		ug/l	2.04	5
2-Methylnaphthalene	106		ug/l	2.04	5
Acenaphthylene	ND		ug/l	0.408	1
Acenaphthene	ND		ug/l	0.408	1
Fluorene	1.88		ug/l	0.408	1
Phenanthrene	0.722		ug/l	0.408	1
Anthracene	ND		ug/l	0.408	1
Fluoranthene	ND		ug/l	0.408	1
Pyrene	ND		ug/l	0.408	1
Benzo(a)anthracene	ND		ug/l	0.408	1
Chrysene	ND		ug/l	0.408	1
Benzo(b)fluoranthene	ND		ug/l	0.408	1
Benzo(k)fluoranthene	ND		ug/l	0.408	1
Benzo(a)pyrene	ND		ug/l	0.200	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.408	1
Dibenzo(a,h)anthracene	ND		ug/l	0.408	1
Benzo(ghi)perylene	ND		ug/l	0.408	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-10

Date Collected: 06/05/08 15:30

Client ID: TW101-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	86		40-140
2-Fluorobiphenyl	90		40-140
2-Bromonaphthalene	77		40-140
O-Terphenyl-MS	76		40-140

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-11  
**Client ID:** TW102-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 18:47  
**Analyst:** TT

**Date Collected:** 06/05/08 14:45  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

**Quality Control Information**

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons**

C5-C8 Aliphatics, Unadjusted	ND		ug/l	500	10
C9-C12 Aliphatics, Unadjusted	2100		ug/l	500	10
C9-C10 Aromatics	1110		ug/l	500	10
C5-C8 Aliphatics, Adjusted	ND		ug/l	500	10
C9-C12 Aliphatics, Adjusted	ND		ug/l	500	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	87		70-130
2,5-Dibromotoluene-FID	90		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-11  
**Client ID:** TW102-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 09:49  
**Analyst:** MF

**Date Collected:** 06/05/08 14:45  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/07/08 12:30

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### EPH with MS Targets

C9-C18 Aliphatics	ND		ug/l	101	1
C19-C36 Aliphatics	ND		ug/l	101	1
C11-C22 Aromatics	259		ug/l	101	1
C11-C22 Aromatics, Adjusted	167		ug/l	101	1
Naphthalene	71.3		ug/l	0.404	1
2-Methylnaphthalene	21.0		ug/l	0.404	1
Acenaphthylene	ND		ug/l	0.404	1
Acenaphthene	ND		ug/l	0.404	1
Fluorene	ND		ug/l	0.404	1
Phenanthrene	ND		ug/l	0.404	1
Anthracene	ND		ug/l	0.404	1
Fluoranthene	ND		ug/l	0.404	1
Pyrene	ND		ug/l	0.404	1
Benzo(a)anthracene	ND		ug/l	0.404	1
Chrysene	ND		ug/l	0.404	1
Benzo(b)fluoranthene	ND		ug/l	0.404	1
Benzo(k)fluoranthene	ND		ug/l	0.404	1
Benzo(a)pyrene	ND		ug/l	0.200	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.404	1
Dibenzo(a,h)anthracene	ND		ug/l	0.404	1
Benzo(ghi)perylene	ND		ug/l	0.404	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-11

Date Collected: 06/05/08 14:45

Client ID: TW102-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	73		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	73		40-140
O-Terphenyl-MS	70		40-140

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-12  
**Client ID:** TW103-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 14:51  
**Analyst:** TT

**Date Collected:** 06/05/08 14:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

**Quality Control Information**

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Volatile Petroleum Hydrocarbons**

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	90		70-130
2,5-Dibromotoluene-FID	90		70-130

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-12  
**Client ID:** TW103-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 10:21  
**Analyst:** MF

**Date Collected:** 06/05/08 14:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/07/08 12:30

**Quality Control Information**

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

C9-C18 Aliphatics	ND		ug/l	101	1
C19-C36 Aliphatics	ND		ug/l	101	1
C11-C22 Aromatics	ND		ug/l	101	1
C11-C22 Aromatics, Adjusted	ND		ug/l	101	1
Naphthalene	ND		ug/l	0.404	1
2-Methylnaphthalene	ND		ug/l	0.404	1
Acenaphthylene	ND		ug/l	0.404	1
Acenaphthene	ND		ug/l	0.404	1
Fluorene	ND		ug/l	0.404	1
Phenanthrene	ND		ug/l	0.404	1
Anthracene	ND		ug/l	0.404	1
Fluoranthene	ND		ug/l	0.404	1
Pyrene	ND		ug/l	0.404	1
Benzo(a)anthracene	ND		ug/l	0.404	1
Chrysene	ND		ug/l	0.404	1
Benzo(b)fluoranthene	ND		ug/l	0.404	1
Benzo(k)fluoranthene	ND		ug/l	0.404	1
Benzo(a)pyrene	ND		ug/l	0.200	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.404	1
Dibenzo(a,h)anthracene	ND		ug/l	0.404	1
Benzo(ghi)perylene	ND		ug/l	0.404	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-12

Date Collected: 06/05/08 14:00

Client ID: TW103-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	41		40-140
o-Terphenyl	52		40-140
2-Fluorobiphenyl	72		40-140
2-Bromonaphthalene	71		40-140
O-Terphenyl-MS	58		40-140



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-13  
**Client ID:** TW104-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59,VPH-04-1.1  
**Analytical Date:** 06/09/08 15:43  
**Analyst:** TT

**Date Collected:** 06/05/08 13:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	96		70-130
2,5-Dibromotoluene-FID	98		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-13  
**Client ID:** TW104-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 09:50  
**Analyst:** MF

**Date Collected:** 06/05/08 13:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/07/08 12:30

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### EPH with MS Targets

C9-C18 Aliphatics	ND		ug/l	103	1
C19-C36 Aliphatics	130		ug/l	103	1
C11-C22 Aromatics	ND		ug/l	103	1
C11-C22 Aromatics, Adjusted	ND		ug/l	103	1
Naphthalene	ND		ug/l	0.412	1
2-Methylnaphthalene	ND		ug/l	0.412	1
Acenaphthylene	ND		ug/l	0.412	1
Acenaphthene	ND		ug/l	0.412	1
Fluorene	ND		ug/l	0.412	1
Phenanthrene	ND		ug/l	0.412	1
Anthracene	ND		ug/l	0.412	1
Fluoranthene	0.657		ug/l	0.412	1
Pyrene	0.579		ug/l	0.412	1
Benzo(a)anthracene	ND		ug/l	0.412	1
Chrysene	0.516		ug/l	0.412	1
Benzo(b)fluoranthene	ND		ug/l	0.412	1
Benzo(k)fluoranthene	ND		ug/l	0.412	1
Benzo(a)pyrene	ND		ug/l	0.200	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.412	1
Dibenzo(a,h)anthracene	ND		ug/l	0.412	1
Benzo(ghi)perylene	ND		ug/l	0.412	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-13

Date Collected: 06/05/08 13:00

Client ID: TW104-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	82		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	74		40-140
O-Terphenyl-MS	79		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-14  
**Client ID:** TW106-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 17:57  
**Analyst:** TT

**Date Collected:** 06/05/08 16:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	198		ug/l	50.0	1
C9-C10 Aromatics	128		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	53.5		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	90		70-130
2,5-Dibromotoluene-FID	89		70-130

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-14  
**Client ID:** TW106-W1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 61,EPH-04-1  
**Analytical Date:** 06/13/08 13:44  
**Analyst:** MF

**Date Collected:** 06/05/08 16:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 06/07/08 12:30

### Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
<b>EPH with MS Targets</b>					
C9-C18 Aliphatics	318		ug/l	102	1
C19-C36 Aliphatics	106		ug/l	102	1
C11-C22 Aromatics	296		ug/l	102	1
C11-C22 Aromatics, Adjusted	279		ug/l	102	1
Naphthalene	4.71		ug/l	0.408	1
2-Methylnaphthalene	9.67		ug/l	0.408	1
Acenaphthylene	ND		ug/l	0.408	1
Acenaphthene	0.433		ug/l	0.408	1
Fluorene	0.836		ug/l	0.408	1
Phenanthrene	1.19		ug/l	0.408	1
Anthracene	ND		ug/l	0.408	1
Fluoranthene	ND		ug/l	0.408	1
Pyrene	ND		ug/l	0.408	1
Benzo(a)anthracene	ND		ug/l	0.408	1
Chrysene	ND		ug/l	0.408	1
Benzo(b)fluoranthene	ND		ug/l	0.408	1
Benzo(k)fluoranthene	ND		ug/l	0.408	1
Benzo(a)pyrene	ND		ug/l	0.200	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.408	1
Dibenzo(a,h)anthracene	ND		ug/l	0.408	1
Benzo(ghi)perylene	ND		ug/l	0.408	1

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

Lab ID: L0808388-14

Date Collected: 06/05/08 16:15

Client ID: TW106-W1-060508

Date Received: 06/06/08

Sample Location: WELLESLEY, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**EPH with MS Targets**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	72		40-140
2-Bromonaphthalene	43		40-140
O-Terphenyl-MS	53		40-140

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### SAMPLE RESULTS

**Lab ID:** L0808388-15  
**Client ID:** TB103-TB-060208  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Water  
**Analytical Method:** 59, VPH-04-1.1  
**Analytical Date:** 06/09/08 17:07  
**Analyst:** TT

**Date Collected:** 06/02/08 15:45  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

### Quality Control Information

**Condition of sample received:** Satisfactory  
**Aqueous Preservative:** Laboratory Provided Preserved Container  
**Sample Temperature upon receipt:** Received on Ice

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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### Volatile Petroleum Hydrocarbons

C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0	1
C9-C10 Aromatics	ND		ug/l	50.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	103		70-130
2,5-Dibromotoluene-FID	106		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 59, VPH-04-1.1

Analytical Date: 06/09/08 09:24

Analyst: TT

Parameter	Result	Qualifier	Units	RDL
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Volatile Petroleum Hydrocarbons for sample(s): 01-09 Batch: WG324784-3				
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C5-C8 Aliphatics, Unadjusted	ND		mg/kg	2.67
C9-C12 Aliphatics, Unadjusted	ND		mg/kg	2.67
C9-C10 Aromatics	ND		mg/kg	2.67
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67

Surrogate	%Recovery	Qualifier	Acceptance Criteria
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2,5-Dibromotoluene-PID	119		70-130
2,5-Dibromotoluene-FID	113		70-130



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 59, VPH-04-1.1

Analytical Date: 06/09/08 09:25

Analyst: TT

Parameter	Result	Qualifier	Units	RDL
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Volatile Petroleum Hydrocarbons for sample(s): 10-15 Batch: WG324785-3				
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C5-C8 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND		ug/l	50.0
C9-C10 Aromatics	ND		ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
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2,5-Dibromotoluene-PID	96		70-130
2,5-Dibromotoluene-FID	96		70-130

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 61,EPH-04-1

Extraction Method: EPA 3510C

Analytical Date: 06/12/08 23:38

Extraction Date: 06/07/08 12:30

Analyst: MF

Parameter	Result	Qualifier	Units	RDL
EPH with MS Targets for sample(s): 10-14 Batch: WG325525-1				
C9-C18 Aliphatics	ND		ug/l	100
C19-C36 Aliphatics	ND		ug/l	100
C11-C22 Aromatics	ND		ug/l	100
C11-C22 Aromatics, Adjusted	ND		ug/l	100
Naphthalene	ND		ug/l	0.400
2-Methylnaphthalene	ND		ug/l	0.400
Acenaphthylene	ND		ug/l	0.400
Acenaphthene	ND		ug/l	0.400
Fluorene	ND		ug/l	0.400
Phenanthrene	ND		ug/l	0.400
Anthracene	ND		ug/l	0.400
Fluoranthene	ND		ug/l	0.400
Pyrene	ND		ug/l	0.400
Benzo(a)anthracene	ND		ug/l	0.400
Chrysene	ND		ug/l	0.400
Benzo(b)fluoranthene	ND		ug/l	0.400
Benzo(k)fluoranthene	ND		ug/l	0.400
Benzo(a)pyrene	ND		ug/l	0.200
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400
Dibenzo(a,h)anthracene	ND		ug/l	0.400
Benzo(ghi)perylene	ND		ug/l	0.400

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	60		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	61		40-140
O-Terphenyl-MS	66		40-140

Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 61,EPH-04-1

Extraction Method: EPA 3546

Analytical Date: 06/13/08 12:57

Extraction Date: 06/13/08 09:00

Analyst: MF

Parameter	Result	Qualifier	Units	RDL
Extractable Petroleum Hydrocarbons for sample(s): 01-08 Batch: WG325538-1				
C9-C18 Aliphatics	ND		mg/kg	6.67
C19-C36 Aliphatics	ND		mg/kg	6.67
C11-C22 Aromatics	ND		mg/kg	6.67
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.67
Naphthalene	ND		mg/kg	0.333
2-Methylnaphthalene	ND		mg/kg	0.333
Acenaphthylene	ND		mg/kg	0.333
Acenaphthene	ND		mg/kg	0.333
Fluorene	ND		mg/kg	0.333
Phenanthrene	ND		mg/kg	0.333
Anthracene	ND		mg/kg	0.333
Fluoranthene	ND		mg/kg	0.333
Pyrene	ND		mg/kg	0.333
Benzo(a)anthracene	ND		mg/kg	0.333
Chrysene	ND		mg/kg	0.333
Benzo(b)fluoranthene	ND		mg/kg	0.333
Benzo(k)fluoranthene	ND		mg/kg	0.333
Benzo(a)pyrene	ND		mg/kg	0.333
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.333
Dibenzo(a,h)anthracene	ND		mg/kg	0.333
Benzo(ghi)perylene	ND		mg/kg	0.333

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	78		40-140
2-Fluorobiphenyl	85		40-140
2-Bromonaphthalene	78		40-140

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons Associated sample(s): 01-09 Batch: WG324784-1 WG324784-2					
C5-C8 Aliphatics	83	77	70-130	8	25
C9-C12 Aliphatics	98	91	70-130	7	25
C9-C10 Aromatics	103	97	70-130	6	25
Benzene	97	93	70-130	4	25
Toluene	98	92	70-130	5	25
Ethylbenzene	101	95	70-130	6	25
p/m-Xylene	98	92	70-130	7	25
o-Xylene	99	92	70-130	7	25
Methyl tert butyl ether	110	106	70-130	4	25
Naphthalene	120	116	70-130	3	25
1,2,4-Trimethylbenzene	104	98	70-130	6	25
Pentane	46	42	70-130	10	25
2-Methylpentane	98	93	70-130	6	25
2,2,4-Trimethylpentane	97	89	70-130	8	25
n-Nonane	98	90	30-130	8	25
n-Decane	97	90	70-130	7	25
n-Butylcyclohexane	100	92	70-130	7	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Lab Number:** L0808388

**Project Number:** 086017

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons Associated sample(s): 01-09 Batch: WG324784-1 WG324784-2					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		110		70-130
2,5-Dibromotoluene-FID	111		105		70-130

Volatile Petroleum Hydrocarbons Associated sample(s): 10-15 Batch: WG324785-1 WG324785-2					
C5-C8 Aliphatics	98	98	70-130	0	25
C9-C12 Aliphatics	88	91	70-130	3	25
C9-C10 Aromatics	88	89	70-130	1	25
Benzene	89	90	70-130	1	25
Toluene	90	90	70-130	0	25
Ethylbenzene	90	91	70-130	1	25
p/m-Xylene	89	90	70-130	1	25
o-Xylene	89	90	70-130	1	25
Methyl tert butyl ether	98	100	70-130	3	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Petroleum Hydrocarbons Associated sample(s): 10-15 Batch: WG324785-1 WG324785-2					
Naphthalene	98	99	70-130	1	25
1,2,4-Trimethylbenzene	89	89	70-130	1	25
Pentane	104	103	70-130	1	25
2-Methylpentane	99	100	70-130	1	25
2,2,4-Trimethylpentane	93	97	70-130	4	25
n-Nonane	91	94	30-130	3	25
n-Decane	87	90	70-130	3	25
n-Butylcyclohexane	89	92	70-130	3	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	90	90	70-130
2,5-Dibromotoluene-FID	90	93	70-130

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
EPH with MS Targets Associated sample(s): 10-14 Batch: WG325525-2 WG325525-3					
C9-C18 Aliphatics	44	42	40-140	5	25
C19-C36 Aliphatics	71	70	40-140	1	25
C11-C22 Aromatics	81	75	40-140	8	25
Naphthalene	60	50	40-140	18	25
2-Methylnaphthalene	60	52	40-140	14	25
Acenaphthylene	63	54	40-140	15	25
Acenaphthene	69	63	40-140	9	25
Fluorene	70	64	40-140	9	25
Phenanthrene	72	71	40-140	1	25
Anthracene	87	86	40-140	1	25
Fluoranthene	88	87	40-140	1	25
Pyrene	95	94	40-140	1	25
Benzo(a)anthracene	90	85	40-140	6	25
Chrysene	72	69	40-140	4	25
Benzo(b)fluoranthene	92	88	40-140	4	25
Benzo(k)fluoranthene	81	77	40-140	5	25
Benzo(a)pyrene	86	80	40-140	7	25
Indeno(1,2,3-cd)Pyrene	85	80	40-140	6	25
Dibenzo(a,h)anthracene	87	81	40-140	7	25
Benzo(ghi)perylene	82	77	40-140	6	25
Nonane (C9)	31	27	30-140	14	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
EPH with MS Targets Associated sample(s): 10-14 Batch: WG325525-2 WG325525-3					
Decane (C10)	39	35	40-140	11	25
Dodecane (C12)	50	47	40-140	6	25
Tetradecane (C14)	59	56	40-140	5	25
Hexadecane (C16)	65	63	40-140	3	25
Octadecane (C18)	67	66	40-140	2	25
Nonadecane (C19)	68	67	40-140	1	25
Eicosane (C20)	70	69	40-140	1	25
Docosane (C22)	71	70	40-140	1	25
Tetracosane (C24)	76	75	40-140	1	25
Hexacosane (C26)	74	73	40-140	1	25
Octacosane (C28)	74	73	40-140	1	25
Triacontane (C30)	74	73	40-140	1	25
Hexatriacontane (C36)	73	72	40-140	1	25
% Naphthalene Breakthrough	0	0		NC	
% 2-Methylnaphthalene Breakthrough	0	0		NC	



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Lab Number:** L0808388

**Project Number:** 086017

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
EPH with MS Targets Associated sample(s): 10-14 Batch: WG325525-2 WG325525-3					

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
Chloro-Octadecane	67	67	40-140
o-Terphenyl	96	86	40-140
2-Fluorobiphenyl	81	74	40-140
2-Bromonaphthalene	76	69	40-140
O-Terphenyl-MS	92	84	40-140
% Naphthalene Breakthrough	0	0	
% 2-Methylnaphthalene Breakthrough	0	0	

Extractable Petroleum Hydrocarbons Associated sample(s): 01-08 Batch: WG325538-2 WG325538-3

C9-C18 Aliphatics	56	56	40-140	0	25
C19-C36 Aliphatics	70	70	40-140	0	25
C11-C22 Aromatics	81	86	40-140	6	25
Naphthalene	73	70	40-140	4	25
2-Methylnaphthalene	71	69	40-140	3	25
Acenaphthylene	71	70	40-140	1	25
Acenaphthene	75	74	40-140	1	25
Fluorene	76	77	40-140	1	25
Phenanthrene	78	80	40-140	3	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons Associated sample(s): 01-08 Batch: WG325538-2 WG325538-3					
Anthracene	77	80	40-140	4	25
Fluoranthene	81	86	40-140	6	25
Pyrene	82	86	40-140	5	25
Benzo(a)anthracene	82	88	40-140	7	25
Chrysene	84	91	40-140	8	25
Benzo(b)fluoranthene	84	92	40-140	9	25
Benzo(k)fluoranthene	86	94	40-140	9	25
Benzo(a)pyrene	76	84	40-140	10	25
Indeno(1,2,3-cd)Pyrene	80	88	40-140	10	25
Dibenzo(a,h)anthracene	83	92	40-140	10	25
Benzo(ghi)perylene	85	93	40-140	9	25
Nonane (C9)	43	43	30-140	0	25
Decane (C10)	53	53	40-140	0	25
Dodecane (C12)	60	61	40-140	2	25
Tetradecane (C14)	61	62	40-140	2	25
Hexadecane (C16)	63	64	40-140	2	25
Octadecane (C18)	65	65	40-140	0	25
Nonadecane (C19)	66	66	40-140	0	25
Eicosane (C20)	69	69	40-140	0	25
Docosane (C22)	71	72	40-140	1	25
Tetracosane (C24)	75	76	40-140	1	25

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Extractable Petroleum Hydrocarbons Associated sample(s): 01-08 Batch: WG325538-2 WG325538-3					
Hexacosane (C26)	72	72	40-140	0	25
Octacosane (C28)	72	72	40-140	0	25
Triacontane (C30)	71	71	40-140	0	25
Hexatriacontane (C36)	75	74	40-140	1	25
% Naphthalene Breakthrough	0	0		NC	
% 2-Methylnaphthalene Breakthrough	0	0		NC	

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
Chloro-Octadecane	68	67	40-140
o-Terphenyl	91	101	40-140
2-Fluorobiphenyl	81	84	40-140
2-Bromonaphthalene	75	76	40-140
% Naphthalene Breakthrough	0	0	
% 2-Methylnaphthalene Breakthrough	0	0	

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**Fractionation Check Standard  
Quality Control**

Fractionation check standard for EM47163

<b>Parameter</b>	<b>% Recovery</b>	<b>QC Criteria</b>
C9-C18 Aliphatics	74	40-140
C19-C36 Aliphatics	80	40-140
C11-C22 Aromatics	93	40-140
Naphthalene	90	40-140
2-Methylnaphthalene	84	40-140
Acenaphthylene	84	40-140
Acenaphthene	85	40-140
Fluorene	84	40-140
Phenanthrene	84	40-140
Anthracene	89	40-140
Fluoranthene	89	40-140
Pyrene	90	40-140
Benzo(a)anthracene	90	40-140
Chrysene	91	40-140
Benzo(b)fluoranthene	100	40-140
Benzo(k)fluoranthene	95	40-140
Benzo(a)pyrene	86	40-140
Indeno(1,2,3-cd)Pyrene	86	40-140
Dibenzo(a,h)anthracene	90	40-140
Benzo(g,h,i)perylene	92	40-140
Nonane	68	30-140
Decane	72	40-140
Dodecane	76	40-140
Tetradecane	72	40-140
Hexadecane	74	40-140
Octadecane	74	40-140
Nonadecane	73	40-140
Eicosane	76	40-140
Docosane	78	40-140
Tetracosane	85	40-140
Hexacosane	82	40-140
Octacosane	82	40-140
triacontane	82	40-140
Hexatriacontane	84	40-140
% Naphthalene Breakthrough	0	40-140
% 2-Methylnaphthalene Breakthrough	0	40-140

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**Fractionation Check Standard  
Quality Control**

Fractionation check standard for EM47163

<b>Surrogate</b>	<b>% Recovery</b>	<b>QC Criteria</b>
Chloro-Octadecane	72	40-140
o-Terphenyl	88	40-140
2-Fluorobiphenyl	84	40-140
2-Bromonaphthalene	78	40-140

# PCBS

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 64,8082  
**Analytical Date:** 06/12/08 16:47  
**Analyst:** SS  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 06/09/08 21:00  
**Cleanup Method1:** EPA 3540C  
**Cleanup Date1:** 06/10/08

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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**Polychlorinated Biphenyls by MCP 8082**

Aroclor 1016	ND		ug/kg	40.2	1
Aroclor 1221	ND		ug/kg	40.2	1
Aroclor 1232	ND		ug/kg	40.2	1
Aroclor 1242	ND		ug/kg	40.2	1
Aroclor 1248	ND		ug/kg	40.2	1
Aroclor 1254	ND		ug/kg	40.2	1
Aroclor 1262	ND		ug/kg	40.2	1
Aroclor 1268	ND		ug/kg	40.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	61		30-150	B

**Project Name:** WORCESTER STREET**Lab Number:** L0808388**Project Number:** 086017**Report Date:** 06/13/08**SAMPLE RESULTS**

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Analytical Method:** 64,8082  
**Analytical Date:** 06/12/08 16:47  
**Analyst:** SS  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3540C  
**Extraction Date:** 06/09/08 21:00  
**Cleanup Method1:** EPA 3540C  
**Cleanup Date1:** 06/10/08

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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## Polychlorinated Biphenyls by MCP 8082

Aroclor 1260	54.3		ug/kg	40.2	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	61		30-150	B



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

### Method Blank Analysis Batch Quality Control

Analytical Method: 64,8082  
 Analytical Date: 06/11/08 17:57  
 Analyst: SS

Extraction Method: EPA 3540C  
 Extraction Date: 06/09/08 21:00  
 Cleanup Method1: EPA 3540C  
 Cleanup Date1: 06/10/08

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by MCP 8082 for sample(s): 04 Batch: WG324919-1				

Aroclor 1016	ND		ug/kg	33.3
Aroclor 1221	ND		ug/kg	33.3
Aroclor 1232	ND		ug/kg	33.3
Aroclor 1242	ND		ug/kg	33.3
Aroclor 1248	ND		ug/kg	33.3
Aroclor 1254	ND		ug/kg	33.3
Aroclor 1260	ND		ug/kg	33.3
Aroclor 1262	ND		ug/kg	33.3
Aroclor 1268	ND		ug/kg	33.3

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	74		30-150	B

# Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WORCESTER STREET

**Lab Number:** L0808388

**Project Number:** 086017

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by MCP 8082 Associated sample(s): 04 Batch: WG324919-2 WG324919-3					
Aroclor 1016	69	64	40-140	8	30
Aroclor 1260	82	83	40-140	1	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		42		30-150	A
Decachlorobiphenyl	53		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		64		30-150	B
Decachlorobiphenyl	73		74		30-150	B

## METALS

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil  
**Percent Solids:** 83%

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series										
Arsenic, Total	2.6		mg/kg	0.55	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Barium, Total	32		mg/kg	0.55	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Cadmium, Total	ND		mg/kg	0.55	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Chromium, Total	8.9		mg/kg	0.55	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Lead, Total	38		mg/kg	2.7	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Mercury, Total	0.11		mg/kg	0.09	1	06/10/08 18:00	06/11/08 13:16	EPA 7471A	64,7471A	RC
Selenium, Total	ND		mg/kg	2.7	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI
Silver, Total	ND		mg/kg	0.55	1	06/09/08 15:10	06/10/08 11:38	EPA 3050B	60,6010B	AI



Project Name: WORCESTER STREET

Lab Number: L0808388

Project Number: 086017

Report Date: 06/13/08

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 04 Batch: WG324875-1								
Arsenic, Total	ND	mg/kg	0.50	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Barium, Total	ND	mg/kg	0.50	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Cadmium, Total	ND	mg/kg	0.50	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Chromium, Total	ND	mg/kg	0.50	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Lead, Total	ND	mg/kg	2.5	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Selenium, Total	ND	mg/kg	2.5	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI
Silver, Total	ND	mg/kg	0.50	1	06/09/08 15:10	06/10/08 12:39	60,6010B	AI

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 04 Batch: WG325064-1								
Mercury, Total	ND	mg/kg	0.08	1	06/10/08 18:00	06/11/08 12:58	64,7471A	RC

### Prep Information

Digestion Method: EPA 7471A

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** WORCESTER STREET

**Project Number:** 086017

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by MCP 6000/7000 series Associated sample(s): 04 Batch: WG324875-2 WG324875-3					
Arsenic, Total	93	93	75-125	0	30
Barium, Total	93	92	75-125	1	30
Cadmium, Total	98	97	75-125	1	30
Chromium, Total	96	94	75-125	2	30
Lead, Total	93	92	75-125	1	30
Selenium, Total	88	88	75-125	0	30
Silver, Total	117	114	75-125	3	30
Total Metals by MCP 6000/7000 series Associated sample(s): 04 Batch: WG325064-2 WG325064-3					
Mercury, Total	104	106	75-125	2	30

# **INORGANICS & MISCELLANEOUS**

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-01  
**Client ID:** SB101-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 12:00  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	87		%	0.10	1	-	06/09/08 18:20	30,2540G	NM





**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-02  
**Client ID:** SB102-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 11:20  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	89		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-03  
**Client ID:** SB103-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 10:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	85		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-04  
**Client ID:** SB104-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 10:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	83		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-05  
**Client ID:** SB105-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 08:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	89		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-06  
**Client ID:** SB106-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 12:30  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	89		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-07  
**Client ID:** SB107-S2-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 09:50  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	92		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**SAMPLE RESULTS**

**Lab ID:** L0808388-08  
**Client ID:** SB108-S1-060508  
**Sample Location:** WELLESLEY, MA  
**Matrix:** Soil

**Date Collected:** 06/05/08 09:15  
**Date Received:** 06/06/08  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	90		%	0.10	1	-	06/09/08 18:20	30,2540G	NM



**Project Name:** WORCESTER STREET

**Project Number:** 086017

## Lab Duplicate Analysis

**Batch Quality Control**

**Lab Number:** L0808388

**Report Date:** 06/13/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-08   QC Batch ID: WG324906-1   QC Sample: L0808275-01   Client ID: DUP Sample					
Solids, Total	87	87	%	0	20



Project Name: WORCESTER STREET

Project Number: 086017

Lab Number: L0808388

Report Date: 06/13/08

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information

## Cooler Custody Seal

A Absent

B Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0808388-01A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-01B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-01C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-01D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-02A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-02B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-02C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-02D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-03A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-03B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-03C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-03D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-04A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-04B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-04C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-04D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	MCP-SE-6010T,EPH-DELUX-04,MCP-AG-6010T,MCP-PB-6010T,MCP-CD-6010T,MCP-CR-6010T,MCP-BA-6010T,MCP-7471T,MCP-8082-04,MCP-AS-6010T,TS
L0808388-05A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-05B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-05C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-05D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-06A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-06B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-06C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-06D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-07A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-07B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

### Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0808388-07C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-07D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-08A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	VPH-04,MCP-8260HLW
L0808388-08B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-08C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-08D	Amber 120ml unpreserved	B	N/A	3.0C	Y	Absent	EPH-DELUX-04,TS
L0808388-09A	Vial MeOH preserved	B	N/A	3.0C	Y	Absent	MCP-8260H-04,VPH-04,MCP-8260HLW
L0808388-09B	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-09C	Vial water preserved	B	N/A	3.0C	Y	Absent	MCP-8260HLW
L0808388-10A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-10B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-10C	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-10E	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-10F	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-11A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-11B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-11C	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-11D	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-11E	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-11F	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-12A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-12B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-12C	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-12D	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-12E	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-12F	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-13A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-13B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-13C	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-13D	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-13E	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-13F	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-14A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-14B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-14C	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0808388-14D	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04
L0808388-14E	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-14F	Amber 1000ml HCl preserved	A	<2	2.1C	Y	Absent	EPHD-GC-04,EPH-MS
L0808388-15A	Vial HCl preserved	A	N/A	2.1C	Y	Absent	MCP-8260-04
L0808388-15B	Vial HCl preserved	A	N/A	2.1C	Y	Absent	VPH-04

**Container Comments**

L0808388-01A

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

## GLOSSARY

### Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NI - Not Ignitable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND - Not detected at the reported detection limit for the sample.
- RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

**Project Name:** WORCESTER STREET  
**Project Number:** 086017

**Lab Number:** L0808388  
**Report Date:** 06/13/08

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 59 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
- 61 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
- 64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.







# CHAIN OF CUSTODY

PAGE 2 OF 2

 WESTBORO, MA  
 TEL: 508-898-9220  
 FAX: 508-898-9193

 MANSFIELD, MA  
 TEL: 508-822-9300  
 FAX: 508-822-3288

## Client Information

 Client: Ransom Environmental

 Address: Browns Wharf

 Phone: 978 465 1822

 Fax: 978 465 2986

 Email: abe@ransomenv.com
☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Tw101 has 3 VOA's - one broke when screwing cap on while sampling.

## Project Information

 Project Name: Worcester Street

 Project Location: Willesley, MA

 Project #: 086017

 Project Manager: Andrew Bryan

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved!)

 Date Due: 6/13/08

Time:

Date Rec'd in Lab:

6/16/08

## Report Information - Data Deliverables

☐ FAX

☐ EMAIL

☒ ADEK

☐ Add'l Deliverables

## Regulatory Requirements/Report Limits

State / Fed Program

Criteria

MA DEP MCP RCSI / RGS-W1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

## ANALYSIS

EPH Deluxe  
 VPH Standard  
 VOCs 8260

## SAMPLE HANDLING

☐ Filtration  
☐ Done  
☒ Not needed  
☐ Lab to do  
☐ Preservation  
☐ Lab to do  
 (Please specify below)

## Sample Specific Comments

TOTAL # OF SAMPLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	
08388-10	Tw101-W1-060508	6/5/08	15:30	GW	SEB/KMS	X X X
11	Tw102-W1-060508	6/5/08	14:45	GW	SEB/KMS	X X X
12	Tw103-W1-060508	6/5/08	14:00	GW	SEB/KMS	X X X
13	Tw104-W1-060508	6/5/08	13:00	GW	SEB/KMS	X X X
14	Tw106-W1-060508	6/5/08	16:15	GW	SEB/KMS	X X X
15	TB103-TB-060208	6/2/08	15:45		KOZ	X X

Container Type	Preservative	Date/Time	Received By:	Date/Time
A	V	V		
B	B	B		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

## PLEASE ANSWER QUESTIONS ABOVE!

 IS YOUR PROJECT  
 MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

### PROJECT NARRATIVE

Rick LaMothe  
Cyn Environmental Services  
100 Tosca Drive  
Stoughton, MA 02072

**RE: Kehoe Wellesley**  
**ESS Laboratory Work Order Number: 0810402**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director

Date: November 05, 2008

#### **Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

To achieve CAM compliance for MCP data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

#### **Sample Receipt**

The following samples were received on October 27, 2008 for the analyses specified on the enclosed Chain of Custody Record.

**Question F: All samples except for 0810402-03 for EPH were analyzed for a subset of the required MCP list per the client's request.**

Laboratory ID	Matrix	Client Sample ID
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0810402-01  
0810402-02  
0810402-03  
0810402-04  
0810402-05  
0810402-06

Ground Water MW1  
Ground Water MW2  
Ground Water MW3  
Ground Water MWA  
Ground Water MWB  
Ground Water MWC



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## *CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

## PROJECT NARRATIVE

**No unusual observations noted.**

**End of Project Narrative.**



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:

0810402-01 through 0810402-06

Sample Matrices:	<input checked="" type="checkbox"/> Ground Water	<input type="checkbox"/> Soil/Sediment	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Other: _____
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( ) 7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH <input checked="" type="checkbox"/> 6020 ( )	9014M** ( )
	8082 ( )	8021B ( )	EPH <input checked="" type="checkbox"/> 7000 S*** ( )	7196A ( )

As specified in MADEP

Compendium of Analytical

Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.

** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method

*** 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? ☒ Yes ☐ No*

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? ☒ Yes ☐ No*

C Does the data included in the report meet all the 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"? ☒ Yes ☐ No*

D **VPH and EPH methods only:** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? ☒ Yes ☐ No*

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

E Were all QC performance standards and recommendations for the specific methods achieved? ☒ Yes ☐ No*

F Were results for all analyte-list compounds/elements for the specified method(s) reported? ☐ Yes ☒ No*

***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: _____

Date: November 05, 2008

Printed Name: Laurel Stoddard

Position: Laboratory Director



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW1  
Date Sampled: 10/24/08 11:00  
Percent Solids: N/A  
Initial Volume: 900  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-01  
Sample Matrix: Ground Water  
Analyst: IBM  
Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	ND	ug/L	222	700	1	10/28/08
C19-C36 Aliphatics1	ND	ug/L	222	14000	1	10/28/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	167	200	1	10/28/08
C11-C22 Aromatics1,2	ND	ug/L	167	200		10/28/08
2-Methylnaphthalene	ND	ug/L	5.6	10	1	10/28/08
Acenaphthene	ND	ug/L	11.1	20	1	10/28/08
Naphthalene	24.7	ug/L	11.1	140	1	10/28/08
Phenanthrene	ND	ug/L	11.1	40	1	10/28/08
Preservative:	pH <= 2					

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1-Chlorooctadecane	59 %		40-140
Surrogate: 2-Bromonaphthalene	91 %		40-140
Surrogate: 2-Fluorobiphenyl	88 %		40-140
Surrogate: O-Terphenyl	89 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW1  
Date Sampled: 10/24/08 11:00  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-01  
Sample Matrix: Ground Water  
Analyst: RES  
Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics 1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics 2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	36.7	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative:

pH <= 2

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	110 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	108 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW2  
Date Sampled: 10/24/08 11:30  
Percent Solids: N/A  
Initial Volume: 910  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-02  
Sample Matrix: Ground Water  
Analyst: IBM  
Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C18 Aliphatics1	ND	ug/L	220	700	1	10/28/08
C19-C36 Aliphatics1	ND	ug/L	220	14000	1	10/28/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	165	200	1	10/28/08
C11-C22 Aromatics1,2	ND	ug/L	165	200		10/28/08
2-Methylnaphthalene	ND	ug/L	5.5	10	1	10/28/08
Acenaphthene	ND	ug/L	11.0	20	1	10/28/08
Naphthalene	ND	ug/L	11.0	140	1	10/28/08
Phenanthrene	ND	ug/L	11.0	40	1	10/28/08
Preservative:	pH <= 2					

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	54 %		40-140
Surrogate: 2-Bromonaphthalene	74 %		40-140
Surrogate: 2-Fluorobiphenyl	73 %		40-140
Surrogate: O-Terphenyl	80 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW2  
Date Sampled: 10/24/08 11:30  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-02  
Sample Matrix: Ground Water  
Analyst: RES  
Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	ND	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative: pH <= 2

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 2,5-Dibromotoluene - FID	101 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	101 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

Client Sample ID: MW3

Date Sampled: 10/24/08 12:00

Percent Solids: N/A

Initial Volume: 870

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0810402

ESS Laboratory Sample ID: 0810402-03

Sample Matrix: Ground Water

Analyst: IBM

Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C18 Aliphatics1	ND	ug/L	230	700	1	10/28/08
C19-C36 Aliphatics1	ND	ug/L	230	14000	1	10/28/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	172	200	1	10/28/08
C11-C22 Aromatics1,2	ND	ug/L	172	200		10/30/08
2-Methylnaphthalene	0.45	ug/L	0.23	10	1	10/30/08
Acenaphthene	ND	ug/L	0.23	20	1	10/30/08
Naphthalene	1.24	ug/L	0.23	140	1	10/30/08
Phenanthrene	0.70	ug/L	0.23	40	1	10/30/08
Acenaphthylene	ND	ug/L	0.23	30	1	10/30/08
Anthracene	ND	ug/L	0.23	60	1	10/30/08
Benzo(a)anthracene	0.25	ug/L	0.23	1	1	10/30/08
Benzo(a)pyrene	0.24	ug/L	0.23	0.2	1	10/30/08
Benzo(b)fluoranthene	ND	ug/L	0.23	1	1	10/30/08
Benzo(g,h,i)perylene	0.31	ug/L	0.23	50	1	10/30/08
Benzo(k)fluoranthene	ND	ug/L	0.34	1	1	10/30/08
Chrysene	0.26	ug/L	0.23	2	1	10/30/08
Dibenzo(a,h)Anthracene	ND	ug/L	0.23	0.5	1	10/30/08
Fluoranthene	0.51	ug/L	0.23	90	1	10/30/08
Fluorene	0.43	ug/L	0.23	30	1	10/30/08
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.34	0.5	1	10/30/08
Pyrene	0.43	ug/L	0.23	80	1	10/30/08

Preservative:

pH <= 2

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	52 %		40-140
Surrogate: 2-Bromonaphthalene	84 %		40-140
Surrogate: 2-Fluorobiphenyl	81 %		40-140
Surrogate: O-Terphenyl	77 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

Client Sample ID: MW3

Date Sampled: 10/24/08 12:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 0810402

ESS Laboratory Sample ID: 0810402-03

Sample Matrix: Ground Water

Analyst: RES

Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	ND	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative:

pH <= 2

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	97 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	97 %		70-130





# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MWA  
Date Sampled: 10/24/08 12:30  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-04  
Sample Matrix: Ground Water  
Analyst: IBM  
Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C18 Aliphatics1	ND	ug/L	200	700	1	10/28/08
C19-C36 Aliphatics1	ND	ug/L	200	14000	1	10/28/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	150	200	1	10/28/08
C11-C22 Aromatics1,2	ND	ug/L	150	200		10/28/08
2-Methylnaphthalene	ND	ug/L	5.0	10	1	10/28/08
Acenaphthene	ND	ug/L	10.0	20	1	10/28/08
Naphthalene	ND	ug/L	10.0	140	1	10/28/08
Phenanthrene	ND	ug/L	10.0	40	1	10/28/08
Preservative:	pH <= 2					

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	60 %		40-140
Surrogate: 2-Bromonaphthalene	77 %		40-140
Surrogate: 2-Fluorobiphenyl	75 %		40-140
Surrogate: O-Terphenyl	82 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MWA  
Date Sampled: 10/24/08 12:30  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-04  
Sample Matrix: Ground Water  
Analyst: RES  
Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	ND	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative: pH <= 2

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 2,5-Dibromotoluene - FID	103 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	102 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

Client Sample ID: MWB

Date Sampled: 10/24/08 13:00

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0810402

ESS Laboratory Sample ID: 0810402-05

Sample Matrix: Ground Water

Analyst: IBM

Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C18 Aliphatics1	ND	ug/L	200	700	1	10/28/08
C19-C36 Aliphatics1	ND	ug/L	200	14000	1	10/28/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	150	200	1	10/28/08
C11-C22 Aromatics1,2	ND	ug/L	150	200		10/28/08
2-Methylnaphthalene	ND	ug/L	5.0	10	1	10/28/08
Acenaphthene	ND	ug/L	10.0	20	1	10/28/08
Naphthalene	ND	ug/L	10.0	140	1	10/28/08
Phenanthrene	ND	ug/L	10.0	40	1	10/28/08
Preservative:	pH <= 2					

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	50 %		40-140
Surrogate: 2-Bromonaphthalene	77 %		40-140
Surrogate: 2-Fluorobiphenyl	75 %		40-140
Surrogate: O-Terphenyl	80 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MWB  
Date Sampled: 10/24/08 13:00  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-05  
Sample Matrix: Ground Water  
Analyst: RES  
Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

Analyte	Results	Units	MRL	Limit	DF	Analyzed
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	ND	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative:

pH <= 2

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	98 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	96 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

Client Sample ID: MWC

Date Sampled: 10/24/08 13:30

Percent Solids: N/A

Initial Volume: 955

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0810402

ESS Laboratory Sample ID: 0810402-06

Sample Matrix: Ground Water

Analyst: IBM

Prepared: 10/28/08

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	ND	ug/L	209	700	1	10/29/08
C19-C36 Aliphatics1	ND	ug/L	209	14000	1	10/29/08
C11-C22 Unadjusted Aromatics1	ND	ug/L	157	200	1	10/29/08
C11-C22 Aromatics1,2	ND	ug/L	157	200		10/29/08
2-Methylnaphthalene	ND	ug/L	5.2	10	1	10/29/08
Acenaphthene	ND	ug/L	10.5	20	1	10/29/08
Naphthalene	ND	ug/L	10.5	140	1	10/29/08
Phenanthrene	ND	ug/L	10.5	40	1	10/29/08
Preservative:	pH <= 2					

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1-Chlorooctadecane	50 %		40-140
Surrogate: 2-Bromonaphthalene	78 %		40-140
Surrogate: 2-Fluorobiphenyl	78 %		40-140
Surrogate: O-Terphenyl	74 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MWC  
Date Sampled: 10/24/08 13:30  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0810402  
ESS Laboratory Sample ID: 0810402-06  
Sample Matrix: Ground Water  
Analyst: RES  
Prepared: 11/04/08

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	11/04/08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	11/04/08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	11/04/08
Benzene	ND	ug/L	1.5	5	1	11/04/08
Ethylbenzene	ND	ug/L	5.0	700	1	11/04/08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	11/04/08
Naphthalene	ND	ug/L	5.0	140	1	11/04/08
Toluene	ND	ug/L	5.0	1000	1	11/04/08
Xylene O	ND	ug/L	5.0	10000	1	11/04/08
Xylene P,M	ND	ug/L	10.0	10000	1	11/04/08

Preservative: pH <= 2

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 2,5-Dibromotoluene - FID	99 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	97 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BJ82816 - 3510C

###### Blank

C19-C36 Aliphatics1	ND	200	ug/L
C9-C18 Aliphatics1	ND	200	ug/L
Decane (C10)	ND	5	ug/L
Docosane (C22)	ND	5	ug/L
Dodecane (C12)	ND	5	ug/L
Eicosane (C20)	ND	5	ug/L
Hexacosane (C26)	ND	5	ug/L
Hexadecane (C16)	ND	5	ug/L
Nonadecane (C19)	ND	5	ug/L
Nonane (C9)	ND	5	ug/L
Octacosane (C28)	ND	5	ug/L
Octadecane (C18)	ND	5	ug/L
Tetracosane (C24)	ND	5	ug/L
Tetradecane (C14)	ND	5	ug/L
Triacotane (C30)	ND	5	ug/L

Surrogate: 1-Chlorooctadecane	27.2	ug/L	50.00	54	40-140
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###### Blank

2-Methylnaphthalene	ND	5.0	ug/L
Acenaphthene	ND	10.0	ug/L
Acenaphthylene	ND	10.0	ug/L
Anthracene	ND	10.0	ug/L
Benzo(a)anthracene	ND	10.0	ug/L
Benzo(a)pyrene	ND	10.0	ug/L
Benzo(b)fluoranthene	ND	10.0	ug/L
Benzo(g,h,i)perylene	ND	10.0	ug/L
Benzo(k)fluoranthene	ND	10.0	ug/L
C11-C22 Unadjusted Aromatics1	ND	150	ug/L
C11-C22 Unadjusted Aromatics1	ND	150	ug/L
Chrysene	ND	10.0	ug/L
Dibenzo(a,h)Anthracene	ND	10.0	ug/L
Fluoranthene	ND	10.0	ug/L
Fluorene	ND	10.0	ug/L
Indeno(1,2,3-cd)Pyrene	ND	10.0	ug/L
Naphthalene	ND	10.0	ug/L
Phenanthrene	ND	10.0	ug/L
Pyrene	ND	10.0	ug/L

Surrogate: 2-Bromonaphthalene	36.4	mg/L	50.00	73	40-140
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Surrogate: 2-Bromonaphthalene	36.4	mg/L	50.00	73	40-140
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Surrogate: 2-Fluorobiphenyl	36.3	mg/L	50.00	73	40-140
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Surrogate: 2-Fluorobiphenyl	36.3	mg/L	50.00	73	40-140
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Surrogate: O-Terphenyl	34.1	ug/L	50.00	68	40-140
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Surrogate: O-Terphenyl	34.1	ug/L	50.00	68	40-140
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###### Blank

2-Methylnaphthalene	ND	0.20	ug/L
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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BJ82816 - 3510C

Acenaphthene	ND	0.20	ug/L
Acenaphthylene	ND	0.20	ug/L
Anthracene	ND	0.20	ug/L
Benzo(a)anthracene	ND	0.20	ug/L
Benzo(a)pyrene	ND	0.20	ug/L
Benzo(b)fluoranthene	ND	0.20	ug/L
Benzo(g,h,i)perylene	ND	0.20	ug/L
Benzo(k)fluoranthene	ND	0.30	ug/L
Chrysene	ND	0.20	ug/L
Dibenzo(a,h)Anthracene	ND	0.20	ug/L
Fluoranthene	ND	0.20	ug/L
Fluorene	ND	0.20	ug/L
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L
Naphthalene	ND	0.20	ug/L
Phenanthrene	ND	0.20	ug/L
Pyrene	ND	0.20	ug/L

##### LCS

Decane (C10)	27	5	ug/L	50.00	53	40-140
Docosane (C22)	36	5	ug/L	50.00	72	40-140
Dodecane (C12)	28	5	ug/L	50.00	56	40-140
Eicosane (C20)	35	5	ug/L	50.00	71	40-140
Hexacosane (C26)	35	5	ug/L	50.00	70	40-140
Hexadecane (C16)	33	5	ug/L	50.00	66	40-140
Nonadecane (C19)	35	5	ug/L	50.00	70	40-140
Nonane (C9)	21	5	ug/L	50.00	43	30-140
Octacosane (C28)	36	5	ug/L	50.00	71	40-140
Octadecane (C18)	34	5	ug/L	50.00	69	40-140
Tetracosane (C24)	36	5	ug/L	50.00	73	40-140
Tetradecane (C14)	31	5	ug/L	50.00	62	40-140
Triacontane (C30)	36	5	ug/L	50.00	72	40-140

Surrogate: 1-Chlorooctadecane	33.9		ug/L	50.00	68	40-140
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##### LCS

2-Methylnaphthalene	32.0	5.0	ug/L	50.00	64	40-140
Acenaphthene	30.0	10.0	ug/L	50.00	60	40-140
Acenaphthylene	30.9	10.0	ug/L	50.00	62	40-140
Anthracene	34.8	10.0	ug/L	50.00	70	40-140
Benzo(a)anthracene	38.4	10.0	ug/L	50.00	77	40-140
Benzo(a)pyrene	39.9	10.0	ug/L	50.00	80	40-140
Benzo(b)fluoranthene	37.1	10.0	ug/L	50.00	74	40-140
Benzo(g,h,i)perylene	38.1	10.0	ug/L	50.00	76	40-140
Benzo(k)fluoranthene	35.2	10.0	ug/L	50.00	70	40-140
Chrysene	37.2	10.0	ug/L	50.00	74	40-140
Dibenzo(a,h)Anthracene	39.4	10.0	ug/L	50.00	79	40-140
Fluoranthene	36.9	10.0	ug/L	50.00	74	40-140
Fluorene	32.8	10.0	ug/L	50.00	66	40-140





# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BJ82816 - 3510C

Indeno(1,2,3-cd)Pyrene	36.7	10.0	ug/L	50.00		73	40-140			
Naphthalene	28.1	10.0	ug/L	50.00		56	40-140			
Phenanthrene	34.7	10.0	ug/L	50.00		69	40-140			
Pyrene	36.2	10.0	ug/L	50.00		72	40-140			
Surrogate: 2-Bromonaphthalene	37.6		mg/L	50.00		75	40-140			
Surrogate: 2-Bromonaphthalene	37.6		mg/L	50.00		75	40-140			
Surrogate: 2-Fluorobiphenyl	38.1		mg/L	50.00		76	40-140			
Surrogate: 2-Fluorobiphenyl	38.1		mg/L	50.00		76	40-140			
Surrogate: O-Terphenyl	36.1		ug/L	50.00		72	40-140			
Surrogate: O-Terphenyl	36.1		ug/L	50.00		72	40-140			

##### LCS

2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			

##### LCS

2-Methylnaphthalene	32.0	0.20	ug/L	50.00		64	40-140			
Acenaphthene	30.0	0.20	ug/L	50.00		60	40-140			
Acenaphthylene	30.9	0.20	ug/L	50.00		62	40-140			
Anthracene	34.8	0.20	ug/L	50.00		70	40-140			
Benzo(a)anthracene	38.4	0.20	ug/L	50.00		77	40-140			
Benzo(a)pyrene	39.9	0.20	ug/L	50.00		80	40-140			
Benzo(b)fluoranthene	37.1	0.20	ug/L	50.00		74	40-140			
Benzo(g,h,i)perylene	38.1	0.20	ug/L	50.00		76	40-140			
Benzo(k)fluoranthene	35.2	0.30	ug/L	50.00		70	40-140			
Chrysene	37.2	0.20	ug/L	50.00		74	40-140			
Dibenzo(a,h)Anthracene	39.4	0.20	ug/L	50.00		79	40-140			
Fluoranthene	36.9	0.20	ug/L	50.00		74	40-140			
Fluorene	32.8	0.20	ug/L	50.00		66	40-140			
Indeno(1,2,3-cd)Pyrene	36.7	0.30	ug/L	50.00		73	40-140			
Naphthalene	28.1	0.20	ug/L	50.00		56	40-140			
Phenanthrene	34.7	0.20	ug/L	50.00		69	40-140			
Pyrene	36.2	0.20	ug/L	50.00		72	40-140			

##### LCS Dup

Decane (C10)	27	5	ug/L	50.00		55	40-140	3	25	
Docosane (C22)	41	5	ug/L	50.00		82	40-140	14	25	
Dodecane (C12)	29	5	ug/L	50.00		58	40-140	4	25	
Eicosane (C20)	40	5	ug/L	50.00		81	40-140	13	25	
Hexacosane (C26)	40	5	ug/L	50.00		80	40-140	13	25	
Hexadecane (C16)	35	5	ug/L	50.00		71	40-140	8	25	
Nonadecane (C19)	39	5	ug/L	50.00		79	40-140	12	25	
Nonane (C9)	21	5	ug/L	50.00		43	30-140	0.3	25	
Octacosane (C28)	41	5	ug/L	50.00		82	40-140	13	25	
Octadecane (C18)	38	5	ug/L	50.00		76	40-140	11	25	
Tetracosane (C24)	41	5	ug/L	50.00		83	40-140	13	25	
Tetradecane (C14)	33	5	ug/L	50.00		67	40-140	7	25	
Triacotane (C30)	41	5	ug/L	50.00		82	40-140	13	25	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BJ82816 - 3510C

Surrogate: 1-Chlorooctadecane	38.2		ug/L	50.00		76	40-140			
<b>LCS Dup</b>										
2-Methylnaphthalene	39.5	5.0	ug/L	50.00		79	40-140	21	25	
Acenaphthene	37.4	10.0	ug/L	50.00		75	40-140	22	25	
Acenaphthylene	38.2	10.0	ug/L	50.00		76	40-140	21	25	
Anthracene	42.1	10.0	ug/L	50.00		84	40-140	19	25	
Benzo(a)anthracene	45.1	10.0	ug/L	50.00		90	40-140	16	25	
Benzo(a)pyrene	47.7	10.0	ug/L	50.00		95	40-140	18	25	
Benzo(b)fluoranthene	43.4	10.0	ug/L	50.00		87	40-140	16	25	
Benzo(g,h,i)perylene	45.1	10.0	ug/L	50.00		90	40-140	17	25	
Benzo(k)fluoranthene	42.2	10.0	ug/L	50.00		84	40-140	18	25	
Chrysene	44.6	10.0	ug/L	50.00		89	40-140	18	25	
Dibenzo(a,h)Anthracene	46.7	10.0	ug/L	50.00		93	40-140	17	25	
Fluoranthene	44.0	10.0	ug/L	50.00		88	40-140	18	25	
Fluorene	40.5	10.0	ug/L	50.00		81	40-140	21	25	
Indeno(1,2,3-cd)Pyrene	45.0	10.0	ug/L	50.00		90	40-140	20	25	
Naphthalene	34.3	10.0	ug/L	50.00		69	40-140	20	25	
Phenanthrene	41.9	10.0	ug/L	50.00		84	40-140	19	25	
Pyrene	43.2	10.0	ug/L	50.00		86	40-140	18	25	
Surrogate: 2-Bromonaphthalene	44.6		mg/L	50.00		89	40-140			
Surrogate: 2-Bromonaphthalene	44.6		mg/L	50.00		89	40-140			
Surrogate: 2-Fluorobiphenyl	45.2		mg/L	50.00		90	40-140			
Surrogate: 2-Fluorobiphenyl	45.2		mg/L	50.00		90	40-140			
Surrogate: O-Terphenyl	41.2		ug/L	50.00		82	40-140			
Surrogate: O-Terphenyl	41.2		ug/L	50.00		82	40-140			

<b>LCS Dup</b>										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

<b>LCS Dup</b>										
2-Methylnaphthalene	39.5	0.20	ug/L	50.00		79	40-140	21	25	
Acenaphthene	37.4	0.20	ug/L	50.00		75	40-140	22	25	
Acenaphthylene	38.2	0.20	ug/L	50.00		76	40-140	21	25	
Anthracene	42.1	0.20	ug/L	50.00		84	40-140	19	25	
Benzo(a)anthracene	45.1	0.20	ug/L	50.00		90	40-140	16	25	
Benzo(a)pyrene	47.7	0.20	ug/L	50.00		95	40-140	18	25	
Benzo(b)fluoranthene	43.4	0.20	ug/L	50.00		87	40-140	16	25	
Benzo(g,h,i)perylene	45.1	0.20	ug/L	50.00		90	40-140	17	25	
Benzo(k)fluoranthene	42.2	0.30	ug/L	50.00		84	40-140	18	25	
Chrysene	44.6	0.20	ug/L	50.00		89	40-140	18	25	
Dibenzo(a,h)Anthracene	46.7	0.20	ug/L	50.00		93	40-140	17	25	
Fluoranthene	44.0	0.20	ug/L	50.00		88	40-140	18	25	
Fluorene	40.5	0.20	ug/L	50.00		81	40-140	21	25	
Indeno(1,2,3-cd)Pyrene	45.0	0.30	ug/L	50.00		90	40-140	20	25	
Naphthalene	34.3	0.20	ug/L	50.00		69	40-140	20	25	
Phenanthrene	41.9	0.20	ug/L	50.00		84	40-140	19	25	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BJ82816 - 3510C

Pyrene	43.2	0.20	ug/L	50.00		86	40-140	18	25	
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#### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

##### Batch BK80425 - 5030B

###### Blank

1,2,4-Trimethylbenzene	ND	500	ug/L							
2,2,4-Trimethylpentane	ND	5000	ug/L							
2-Methylpentane	ND	5000	ug/L							
Benzene	ND	150	ug/L							
C5-C8 Unadjusted Aliphatics	ND	20000	ug/L							
C9-C10 Aromatics	ND	10000	ug/L							
C9-C12 Unadjusted Aliphatics	ND	20000	ug/L							
Ethylbenzene	ND	500	ug/L							
Methyl tert-Butyl Ether	ND	150	ug/L							
Naphthalene	ND	500	ug/L							
n-Butylcyclohexane	ND	5000	ug/L							
n-Decane	ND	5000	ug/L							
Nonane (C9)	ND	5000	ug/L							
Pentane	ND	5000	ug/L							
Toluene	ND	500	ug/L							
Xylene O	ND	500	ug/L							
Xylene P,M	ND	1000	ug/L							

Surrogate: 2,5-Dibromotoluene - FID	47.8		ug/L	50.00		96	70-130			
Surrogate: 2,5-Dibromotoluene - PID	46.6		ug/L	50.00		93	70-130			

###### LCS

1,2,4-Trimethylbenzene	91.2		ug/L	100.0		91	70-130			
2,2,4-Trimethylpentane	176		ug/L	150.0		117	70-130			
2-Methylpentane	166		ug/L	150.0		110	70-130			
Benzene	50.1		ug/L	50.00		100	70-130			
Ethylbenzene	50.3		ug/L	50.00		101	70-130			
Methyl tert-Butyl Ether	149		ug/L	150.0		99	70-130			
Naphthalene	83.0		ug/L	100.0		83	70-130			
n-Butylcyclohexane	99.3		ug/L	100.0		99	70-130			
n-Decane	114		ug/L	100.0		114	70-130			
Nonane (C9)	123		ug/L	100.0		123	30-130			
Pentane	107		ug/L	100.0		107	70-130			
Toluene	156		ug/L	150.0		104	70-130			
Xylene O	101		ug/L	100.0		101	70-130			
Xylene P,M	199		ug/L	200.0		100	70-130			

Surrogate: 2,5-Dibromotoluene - FID	52.3		ug/L	50.00		105	70-130			
Surrogate: 2,5-Dibromotoluene - PID	51.2		ug/L	50.00		102	70-130			

###### LCS Dup

1,2,4-Trimethylbenzene	92.2		ug/L	100.0		92	70-130	1	25	
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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

##### Batch BK80425 - 5030B

2,2,4-Trimethylpentane	174		ug/L	150.0		116	70-130	1	25	
2-Methylpentane	165		ug/L	150.0		110	70-130	0.3	25	
Benzene	50.8		ug/L	50.00		102	70-130	2	25	
Ethylbenzene	50.8		ug/L	50.00		102	70-130	1	25	
Methyl tert-Butyl Ether	152		ug/L	150.0		101	70-130	2	25	
Naphthalene	86.7		ug/L	100.0		87	70-130	4	25	
n-Butylcyclohexane	104		ug/L	100.0		104	70-130	5	25	
n-Decane	118		ug/L	100.0		118	70-130	3	25	
Nonane (C9)	127		ug/L	100.0		127	30-130	3	25	
Pentane	107		ug/L	100.0		107	70-130	0.3	25	
Toluene	158		ug/L	150.0		105	70-130	2	25	
Xylene O	102		ug/L	100.0		102	70-130	1	25	
Xylene P,M	202		ug/L	200.0		101	70-130	1	25	

Surrogate: 2,5-Dibromotoluene - FID	53.4		ug/L	50.00		107	70-130			
Surrogate: 2,5-Dibromotoluene - PID	52.0		ug/L	50.00		104	70-130			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### Notes and Definitions

Z-06	pH $\leq$ 2
U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## *CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services

Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 0810402

### **ESS LABORATORY CERTIFICATIONS**

U.S. Army Corps of Engineers  
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP accredited): 242405

Potable Water  
Non Potable Water

New York (NELAP accredited): 11313

Potable Water  
Non Potable Water  
Solid and Hazardous Waste

United States Department of Agriculture

Soil Permit: S-54210

New Jersey (NELAP accredited): RI002

Potable Water  
Non Potable Water  
Soil and Hazardous Waste

Maryland: 301

Potable Water

# CHAIN OF CUSTODY

Page 1 of 1

*Division of Thielsch Engineering, Inc.*  
185 Frances Avenue, Cranston, RI 02910-2211  
Tel. (401) 461-7181 Fax (401) 461-4486  
[www.esslaboratory.com](http://www.esslaboratory.com)

Turn Time	<input checked="" type="checkbox"/> Standard	Other	ESS LAB PROJECT ID
If faster than 5 days, prior approval by laboratory is required # _____			
State where samples were collected from:			
MA	RI	CT	NH
			NY
			ME
Other			
Is this project for any of the following:			
MA-MCP			
Naval			
USACE			
Other			
Reporting Limits			ESS LAB PROJECT ID
51631			9810402
Electronic Deliverable			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Format: Excel			Access PDF Other

Co. Name	Project #	Project Name (20 Chars. or less)	
CYN ENVIRONMENTAL	006734003	Kenoe wellesley	
Contact Person	Address		
Rich Lamothre	484, 990, 990R WORCESTER ST		
City	State	Zip	PO #
wellesley	MA		013958
Telephone #	Fax #	Email Address	
781 341 1777 EXT 138		cyns-m40ma@cynenv.com	

[illegible]

Container Type:	P-Poly	G-Glass	S-Sterile	V-VOA	Matrix:	S-Soil	SD-Solid	D-Sludge	WW-Waste Water	GW-Ground Water	SW-Surface Water	DW-Drinking Water	O-Oil	W-Wipes	F-Filters	
Cooler Present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		Internal Use Only												
Seals Intact	<input type="checkbox"/> Yes	<input type="checkbox"/> No		NA: <input checked="" type="checkbox"/> Pickup												
Cooler Temp:	4.6°															
Preservation Code: 1- NP, 2- HCl, 3- H ₂ SO ₄ , 4- HNO ₃ , 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____																
Sampled by: Chris McLenahan																
Comments: _____																

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM
<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM	<i>[Signature]</i>	10-27-08 11:19 AM

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

### PROJECT NARRATIVE

Rick LaMothe  
Cyn Environmental Services  
100 Tosca Drive  
Stoughton, MA 02072

**RE: Kehoe**

**ESS Laboratory Work Order Number: 0909336**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director



Digitally signed by Laurel Stoddard  
Date: 2009.10.05 10:54:00 -04'00'

### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

To achieve CAM compliance for MCP data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

### Sample Receipt

The following samples were received on September 28, 2009 for the analyses specified on the enclosed Chain of Custody Record.

**Question F: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

<u>Laboratory ID</u>	<u>Matrix</u>	<u>Client Sample ID</u>
0909336-01	Ground Water	MW-1



0909336-02  
0909336-03  
0909336-04

Ground Water MW-2  
Ground Water MW-3  
Ground Water MW-4



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## *CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 0909336

## **PROJECT NARRATIVE**

### **MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon**

BSI0188-CCV2      **Continuing Calibration recovery is above upper control limit.**  
Benzene

**No other observations noted.**

**End of Project Narrative.**



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 0909336

### MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:

0909336-01 through 0909336-04

Sample Matrices:	(x) Ground Water	( ) Soil/Sediment	( ) Drinking Water	( ) Other:
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( ) 7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH (x)	6020 ( ) 9014M** ( )
	8082 ( )	8021B ( )	EPH (x)	7000 S*** ( ) 7196A ( )

As specified in MADEP

* List Release Tracking Number (RTN), if known.

Compendium of Analytical

** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method

Methods (Check all that apply)

*** 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? Yes No*
- 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? Yes No*
- C Does the data included in the report meet all the 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"? Yes No*
- D **VPH and EPH methods only:** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes No*

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

- E Were all QC performance standards and recommendations for the specific methods achieved? Yes No*
- F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes No*

**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: Laurel Stoddard

Date: October 05, 2009

Printed Name: Laurel Stoddard

Position: Laboratory Director



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-1

Date Sampled: 09/25/09 11:00

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-01

Sample Matrix: Ground Water

Analyst: SEP

Prepared: 9/29/09 18:00

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	ND	ug/L	200	700	1	09/30/09 19:27
C19-C36 Aliphatics1	ND	ug/L	200	14000	1	09/30/09 19:27
C11-C22 Unadjusted Aromatics1	ND	ug/L	150	200	1	09/30/09 19:10
C11-C22 Aromatics1,2	ND	ug/L	150	200		09/30/09 19:10
2-Methylnaphthalene	ND	ug/L	5.0	10	1	09/30/09 19:10
Acenaphthene	ND	ug/L	10.0	20	1	09/30/09 19:10
Naphthalene	ND	ug/L	10.0	140	1	09/30/09 19:10
Phenanthrene	ND	ug/L	10.0	40	1	09/30/09 19:10

Preservative: pH <= 2

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	60 %		40-140
Surrogate: 2-Bromonaphthalene	109 %		40-140
Surrogate: 2-Fluorobiphenyl	96 %		40-140
Surrogate: O-Terphenyl	81 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-1

Date Sampled: 09/25/09 11:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-01

Sample Matrix: Ground Water

Analyst: MD

Prepared: 9/29/09 7:40

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	09/29/09 13:01
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	09/29/09 13:01
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	09/29/09 13:01
Benzene	ND	ug/L	1.5	5	1	09/29/09 13:01
Ethylbenzene	ND	ug/L	5.0	700	1	09/29/09 13:01
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	09/29/09 13:01
Naphthalene	ND	ug/L	5.0	140	1	09/29/09 13:01
Toluene	ND	ug/L	5.0	1000	1	09/29/09 13:01
Xylene O	ND	ug/L	5.0	10000	1	09/29/09 13:01
Xylene P,M	ND	ug/L	10.0	10000	1	09/29/09 13:01
<b>Preservative:</b>	<b>pH &lt;= 2</b>					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	90 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	89 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-2

Date Sampled: 09/25/09 11:25

Percent Solids: N/A

Initial Volume: 970

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-02

Sample Matrix: Ground Water

Analyst: SEP

Prepared: 9/29/09 18:00

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	1740	ug/L	206	700	1	09/30/09 20:18
C19-C36 Aliphatics1	547	ug/L	206	14000	1	09/30/09 20:18
C11-C22 Unadjusted Aromatics1	693	ug/L	155	200	1	09/30/09 19:57
C11-C22 Aromatics1,2	693	ug/L	155	200		09/30/09 19:57
2-Methylnaphthalene	ND	ug/L	5.2	10	1	09/30/09 19:57
Acenaphthene	ND	ug/L	10.3	20	1	09/30/09 19:57
Naphthalene	ND	ug/L	10.3	140	1	09/30/09 19:57
Phenanthrene	ND	ug/L	10.3	40	1	09/30/09 19:57
Preservative:	pH <= 2					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	67 %		40-140
Surrogate: 2-Bromonaphthalene	101 %		40-140
Surrogate: 2-Fluorobiphenyl	87 %		40-140
Surrogate: O-Terphenyl	79 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-2  
Date Sampled: 09/25/09 11:25  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 5  
Extraction Method: 5030B

ESS Laboratory Work Order: 0909336  
ESS Laboratory Sample ID: 0909336-02  
Sample Matrix: Ground Water  
Analyst: MD  
Prepared: 9/29/09 7:40

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	09/29/09 14:42
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	09/29/09 14:42
<b>C9-C12 Aliphatics2,3</b>	<b>205</b>	ug/L	200	700	1	09/29/09 14:42
Benzene	ND	ug/L	1.5	5	1	09/29/09 14:42
Ethylbenzene	ND	ug/L	5.0	700	1	09/29/09 14:42
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	09/29/09 14:42
Naphthalene	ND	ug/L	5.0	140	1	09/29/09 14:42
Toluene	ND	ug/L	5.0	1000	1	09/29/09 14:42
Xylene O	ND	ug/L	5.0	10000	1	09/29/09 14:42
Xylene P,M	ND	ug/L	10.0	10000	1	09/29/09 14:42
<b>Preservative:</b>	<b>pH &lt;= 2</b>					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 2,5-Dibromotoluene - FID	94 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	94 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-3

Date Sampled: 09/25/09 11:35

Percent Solids: N/A

Initial Volume: 950

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-03

Sample Matrix: Ground Water

Analyst: SEP

Prepared: 9/29/09 18:00

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	ND	ug/L	211	700	1	09/30/09 21:09
C19-C36 Aliphatics1	ND	ug/L	211	14000	1	09/30/09 21:09
<b>C11-C22 Unadjusted Aromatics1</b>	<b>228</b>	ug/L	158	200	1	09/30/09 23:51
<b>C11-C22 Aromatics1,2</b>	<b>228</b>	ug/L	158	200		09/30/09 23:51
2-Methylnaphthalene	ND	ug/L	5.3	10	1	09/30/09 23:51
Acenaphthene	ND	ug/L	10.5	20	1	09/30/09 23:51
Naphthalene	ND	ug/L	10.5	140	1	09/30/09 23:51
Phenanthrene	ND	ug/L	10.5	40	1	09/30/09 23:51
<b>Preservative:</b>	<b>pH &lt;= 2</b>					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	64 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	105 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	92 %		40-140
<i>Surrogate: O-Terphenyl</i>	81 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-3

Date Sampled: 09/25/09 11:35

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-03

Sample Matrix: Ground Water

Analyst: MD

Prepared: 9/29/09 7:40

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	09/29/09 13:35
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	09/29/09 13:35
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	09/29/09 13:35
Benzene	ND	ug/L	1.5	5	1	09/29/09 13:35
Ethylbenzene	ND	ug/L	5.0	700	1	09/29/09 13:35
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	09/29/09 13:35
Naphthalene	ND	ug/L	5.0	140	1	09/29/09 13:35
Toluene	ND	ug/L	5.0	1000	1	09/29/09 13:35
Xylene O	ND	ug/L	5.0	10000	1	09/29/09 13:35
Xylene P,M	ND	ug/L	10.0	10000	1	09/29/09 13:35
<b>Preservative:</b>	<b>pH &lt;= 2</b>					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	94 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	93 %		70-130





# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-4

Date Sampled: 09/25/09 11:55

Percent Solids: N/A

Initial Volume: 920

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-04

Sample Matrix: Ground Water

Analyst: SEP

Prepared: 9/29/09 18:00

### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C18 Aliphatics1	ND	ug/L	217	700	1	09/30/09 22:00
C19-C36 Aliphatics1	ND	ug/L	217	14000	1	09/30/09 22:00
C11-C22 Unadjusted Aromatics1	ND	ug/L	163	200	1	10/01/09 0:37
C11-C22 Aromatics1,2	ND	ug/L	163	200		10/01/09 0:37
2-Methylnaphthalene	ND	ug/L	5.4	10	1	10/01/09 0:37
Acenaphthene	ND	ug/L	10.9	20	1	10/01/09 0:37
Naphthalene	ND	ug/L	10.9	140	1	10/01/09 0:37
Phenanthrene	ND	ug/L	10.9	40	1	10/01/09 0:37

Preservative: pH <= 2

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	62 %		40-140
Surrogate: 2-Bromonaphthalene	105 %		40-140
Surrogate: 2-Fluorobiphenyl	93 %		40-140
Surrogate: O-Terphenyl	82 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

Client Sample ID: MW-4

Date Sampled: 09/25/09 11:55

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 0909336

ESS Laboratory Sample ID: 0909336-04

Sample Matrix: Ground Water

Analyst: MD

Prepared: 9/29/09 7:40

### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

#### MA - GW1

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
C9-C10 Aromatics	ND	ug/L	100	200	1	09/29/09 14:08
C5-C8 Aliphatics1,2	ND	ug/L	200	300	1	09/29/09 14:08
C9-C12 Aliphatics2,3	ND	ug/L	200	700	1	09/29/09 14:08
Benzene	ND	ug/L	1.5	5	1	09/29/09 14:08
Ethylbenzene	ND	ug/L	5.0	700	1	09/29/09 14:08
Methyl tert-Butyl Ether	ND	ug/L	1.5	70	1	09/29/09 14:08
Naphthalene	ND	ug/L	5.0	140	1	09/29/09 14:08
Toluene	ND	ug/L	5.0	1000	1	09/29/09 14:08
Xylene O	ND	ug/L	5.0	10000	1	09/29/09 14:08
Xylene P,M	ND	ug/L	10.0	10000	1	09/29/09 14:08
<b>Preservative:</b>	<b>pH &lt;= 2</b>					

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	87 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	87 %		70-130

**ESS Laboratory**  
Batch/Sequence Reference Page  
10/05/09 10:52

WorkOrder	SampleAnalysis	Dilution	Batch	Sequence
0909336	01 SVOC: EPH Aliphatic subanalysis	1	BI92930	BSJ0009
0909336	01 SVOC: EPH Aromatic w/4 Diesel PAH	1	BI92930	BSJ0001
0909336	01 VOC: VPH W/Targets Aqueous sub	1	BI92912	BSI0188
0909336	02 SVOC: EPH Aliphatic subanalysis	1	BI92930	BSJ0009
0909336	02 SVOC: EPH Aromatic w/4 Diesel PAH	1	BI92930	BSJ0001
0909336	02 VOC: VPH W/Targets Aqueous sub	1	BI92912	BSI0188
0909336	03 SVOC: EPH Aliphatic subanalysis	1	BI92930	BSJ0009
0909336	03 SVOC: EPH Aromatic w/4 Diesel PAH	1	BI92930	BSJ0001
0909336	03 VOC: VPH W/Targets Aqueous sub	1	BI92912	BSI0188
0909336	04 SVOC: EPH Aliphatic subanalysis	1	BI92930	BSJ0009
0909336	04 SVOC: EPH Aromatic w/4 Diesel PAH	1	BI92930	BSJ0001
0909336	04 VOC: VPH W/Targets Aqueous sub	1	BI92912	BSI0188



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 0909336

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BI92930 - 3510C

###### Blank

C19-C36 Aliphatics1	ND	200	ug/L							
C9-C18 Aliphatics1	ND	200	ug/L							
Decane (C10)	ND	5	ug/L							
Docosane (C22)	ND	5	ug/L							
Dodecane (C12)	ND	5	ug/L							
Eicosane (C20)	ND	5	ug/L							
Hexacosane (C26)	ND	5	ug/L							
Hexadecane (C16)	ND	5	ug/L							
Nonadecane (C19)	ND	5	ug/L							
Nonane (C9)	ND	5	ug/L							
Octacosane (C28)	ND	5	ug/L							
Octadecane (C18)	ND	5	ug/L							
Tetracosane (C24)	ND	5	ug/L							
Tetradecane (C14)	ND	5	ug/L							
Triacontane (C30)	ND	5	ug/L							

Surrogate: 1-Chlorooctadecane	38.0		ug/L	50.00		76	40-140			
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###### Blank

2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	10.0	ug/L							
Acenaphthylene	ND	10.0	ug/L							
Anthracene	ND	10.0	ug/L							
Benzo(a)anthracene	ND	10.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	10.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	150	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	10.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	10.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	10.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	10.0	ug/L							
Pyrene	ND	10.0	ug/L							
Surrogate: 2-Bromonaphthalene	50.2		mg/L	50.00		100	40-140			
Surrogate: 2-Fluorobiphenyl	45.3		mg/L	50.00		91	40-140			
Surrogate: O-Terphenyl	34.6		ug/L	50.00		69	40-140			

###### LCS

C19-C36 Aliphatics1	368	200	ug/L	400.0		92	40-140			
C9-C18 Aliphatics1	239	200	ug/L	300.0		80	40-140			
Decane (C10)	30	5	ug/L	50.00		59	40-140			
Docosane (C22)	43	5	ug/L	50.00		87	40-140			
Dodecane (C12)	32	5	ug/L	50.00		65	40-140			



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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch B192930 - 3510C

Eicosane (C20)	43	5	ug/L	50.00		85	40-140			
Hexacosane (C26)	41	5	ug/L	50.00		83	40-140			
Hexadecane (C16)	40	5	ug/L	50.00		80	40-140			
Nonadecane (C19)	44	5	ug/L	50.00		87	40-140			
Nonane (C9)	22	5	ug/L	50.00		44	30-140			
Octacosane (C28)	41	5	ug/L	50.00		82	40-140			
Octadecane (C18)	42	5	ug/L	50.00		84	40-140			
Tetracosane (C24)	44	5	ug/L	50.00		87	40-140			
Tetradecane (C14)	36	5	ug/L	50.00		73	40-140			
triacontane (C30)	42	5	ug/L	50.00		84	40-140			

Surrogate: 1-Chlorooctadecane

38.6

ug/L

50.00

77

40-140

##### LCS

2-Methylnaphthalene	30.6	5.0	ug/L	50.00		61	40-140			
Acenaphthene	29.6	10.0	ug/L	50.00		59	40-140			
Acenaphthylene	30.6	10.0	ug/L	50.00		61	40-140			
Anthracene	29.8	10.0	ug/L	50.00		60	40-140			
Benzo(a)anthracene	35.9	10.0	ug/L	50.00		72	40-140			
Benzo(a)pyrene	39.0	10.0	ug/L	50.00		78	40-140			
Benzo(b)fluoranthene	36.2	10.0	ug/L	50.00		72	40-140			
Benzo(g,h,i)perylene	38.9	10.0	ug/L	50.00		78	40-140			
Benzo(k)fluoranthene	35.2	10.0	ug/L	50.00		70	40-140			
C11-C22 Unadjusted Aromatics1	732	150	ug/L	850.0		86	40-140			
Chrysene	37.3	10.0	ug/L	50.00		75	40-140			
Dibenzo(a,h)Anthracene	40.6	10.0	ug/L	50.00		81	40-140			
Fluoranthene	37.3	10.0	ug/L	50.00		75	40-140			
Fluorene	32.8	10.0	ug/L	50.00		66	40-140			
Indeno(1,2,3-cd)Pyrene	39.0	10.0	ug/L	50.00		78	40-140			
Naphthalene	29.0	10.0	ug/L	50.00		58	40-140			
Phenanthrene	38.7	10.0	ug/L	50.00		77	40-140			
Pyrene	38.2	10.0	ug/L	50.00		76	40-140			
Surrogate: 2-Bromonaphthalene	43.9		mg/L	50.00		88	40-140			
Surrogate: 2-Fluorobiphenyl	39.9		mg/L	50.00		80	40-140			
Surrogate: O-Terphenyl	35.8		ug/L	50.00		72	40-140			

##### LCS

2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			

##### LCS Dup

C19-C36 Aliphatics1	355	200	ug/L	400.0		89	40-140	4	25	
C9-C18 Aliphatics1	233	200	ug/L	300.0		78	40-140	2	25	
Decane (C10)	29	5	ug/L	50.00		59	40-140	0.9	25	
Docosane (C22)	43	5	ug/L	50.00		86	40-140	1	25	
Dodecane (C12)	33	5	ug/L	50.00		66	40-140	2	25	
Eicosane (C20)	43	5	ug/L	50.00		85	40-140	0.1	25	
Hexacosane (C26)	41	5	ug/L	50.00		82	40-140	0.6	25	
Hexadecane (C16)	39	5	ug/L	50.00		79	40-140	2	25	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 0909336

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

##### Batch BI92930 - 3510C

Nonadecane (C19)	44	5	ug/L	50.00		88	40-140	0.4	25	
Nonane (C9)	22	5	ug/L	50.00		45	30-140	0.6	25	
Octacosane (C28)	41	5	ug/L	50.00		82	40-140	0.8	25	
Octadecane (C18)	42	5	ug/L	50.00		83	40-140	1	25	
Tetracosane (C24)	43	5	ug/L	50.00		86	40-140	0.9	25	
Tetradecane (C14)	37	5	ug/L	50.00		74	40-140	2	25	
Triacontane (C30)	42	5	ug/L	50.00		84	40-140	0.5	25	

Surrogate: 1-Chlorooctadecane

35.9

ug/L

50.00

72

40-140

##### LCS Dup

2-Methylnaphthalene	34.1	5.0	ug/L	50.00		68	40-140	11	25	
Acenaphthene	31.7	10.0	ug/L	50.00		63	40-140	7	25	
Acenaphthylene	32.9	10.0	ug/L	50.00		66	40-140	7	25	
Anthracene	29.8	10.0	ug/L	50.00		60	40-140	0.2	25	
Benzo(a)anthracene	36.0	10.0	ug/L	50.00		72	40-140	0.5	25	
Benzo(a)pyrene	38.4	10.0	ug/L	50.00		77	40-140	1	25	
Benzo(b)fluoranthene	36.4	10.0	ug/L	50.00		73	40-140	0.8	25	
Benzo(g,h,i)perylene	38.7	10.0	ug/L	50.00		77	40-140	0.5	25	
Benzo(k)fluoranthene	35.0	10.0	ug/L	50.00		70	40-140	0.6	25	
C11-C22 Unadjusted Aromatics1	736	150	ug/L	850.0		87	40-140	0.5	25	
Chrysene	36.9	10.0	ug/L	50.00		74	40-140	1	25	
Dibenzo(a,h)Anthracene	40.3	10.0	ug/L	50.00		81	40-140	0.7	25	
Fluoranthene	37.0	10.0	ug/L	50.00		74	40-140	0.8	25	
Fluorene	33.8	10.0	ug/L	50.00		68	40-140	3	25	
Indeno(1,2,3-cd)Pyrene	38.8	10.0	ug/L	50.00		78	40-140	0.5	25	
Naphthalene	32.9	10.0	ug/L	50.00		66	40-140	12	25	
Phenanthrene	37.9	10.0	ug/L	50.00		76	40-140	2	25	
Pyrene	37.3	10.0	ug/L	50.00		75	40-140	2	25	
Surrogate: 2-Bromonaphthalene	46.0		mg/L	50.00		92	40-140			
Surrogate: 2-Fluorobiphenyl	43.0		mg/L	50.00		86	40-140			
Surrogate: O-Terphenyl	34.3		ug/L	50.00		69	40-140			

##### LCS Dup

2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

#### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

##### Batch BI92912 - 5030B

##### Blank

1,2,4-Trimethylbenzene	ND	5.0	ug/L							
2,2,4-Trimethylpentane	ND	50.0	ug/L							
2-Methylpentane	ND	50.0	ug/L							
Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	200	ug/L							
C9-C10 Aromatics	ND	100	ug/L							
C9-C12 Unadjusted Aliphatics	ND	200	ug/L							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

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### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

##### Batch B192912 - 50308

Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							
n-Butylcyclohexane	ND	50.0	ug/L							
n-Decane	ND	50.0	ug/L							
Nonane (C9)	ND	50.0	ug/L							
Pentane	ND	50.0	ug/L							
Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							

Surrogate: 2,5-Dibromotoluene - FID	41.5		ug/L	50.00		83	70-130
Surrogate: 2,5-Dibromotoluene - PID	40.9		ug/L	50.00		82	70-130

##### LCS

1,2,4-Trimethylbenzene	98.4		ug/L	100.0		98	70-130
2,2,4-Trimethylpentane	162		ug/L	150.0		108	70-130
2-Methylpentane	163		ug/L	150.0		109	70-130
Benzene	48.2		ug/L	50.00		96	70-130
C5-C8 Unadjusted Aliphatics	422		ug/L	400.0		106	70-130
C9-C10 Aromatics	102		ug/L	100.0		102	70-130
C9-C12 Unadjusted Aliphatics	303		ug/L	300.0		101	70-130
Ethylbenzene	49.9		ug/L	50.00		100	70-130
Methyl tert-Butyl Ether	144		ug/L	150.0		96	70-130
Naphthalene	94.3		ug/L	100.0		94	70-130
n-Butylcyclohexane	89.6		ug/L	100.0		90	70-130
n-Decane	96.3		ug/L	100.0		96	70-130
Nonane (C9)	106		ug/L	100.0		106	30-130
Pentane	107		ug/L	100.0		107	70-130
Toluene	148		ug/L	150.0		99	70-130
Xylene O	98.3		ug/L	100.0		98	70-130
Xylene P,M	196		ug/L	200.0		98	70-130

Surrogate: 2,5-Dibromotoluene - FID	55.9		ug/L	50.00		112	70-130
Surrogate: 2,5-Dibromotoluene - PID	54.6		ug/L	50.00		109	70-130

##### LCS Dup

1,2,4-Trimethylbenzene	97.1		ug/L	100.0		97	70-130	1	25
2,2,4-Trimethylpentane	167		ug/L	150.0		111	70-130	3	25
2-Methylpentane	159		ug/L	150.0		106	70-130	2	25
Benzene	48.0		ug/L	50.00		96	70-130	0.4	25
C5-C8 Unadjusted Aliphatics	419		ug/L	400.0		105	70-130	0.7	25
C9-C10 Aromatics	100		ug/L	100.0		100	70-130	1	25
C9-C12 Unadjusted Aliphatics	304		ug/L	300.0		101	70-130	0.5	25
Ethylbenzene	48.8		ug/L	50.00		98	70-130	2	25
Methyl tert-Butyl Ether	143		ug/L	150.0		95	70-130	0.6	25
Naphthalene	93.4		ug/L	100.0		93	70-130	0.9	25
n-Butylcyclohexane	91.3		ug/L	100.0		91	70-130	2	25



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### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon										
<b>Batch B192912 - 50308</b>										
n-Decane	98.8		ug/L	100.0		99	70-130	3	25	
Nonane (C9)	107		ug/L	100.0		107	30-130	1	25	
Pentane	104		ug/L	100.0		104	70-130	3	25	
Toluene	147		ug/L	150.0		98	70-130	0.9	25	
Xylene O	97.3		ug/L	100.0		97	70-130	1	25	
Xylene P,M	194		ug/L	200.0		97	70-130	1	25	
Surrogate: 2,5-Dibromotoluene - FID	46.5		ug/L	50.00		93	70-130			
Surrogate: 2,5-Dibromotoluene - PID	45.5		ug/L	50.00		91	70-130			





# ESS Laboratory

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### **Notes and Definitions**

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
C+	Continuing Calibration recovery is above upper control limit.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## *CERTIFICATE OF ANALYSIS*

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## **ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

### **ENVIRONMENTAL**

Rhode Island Potable and Non Potable Water: A-179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

[http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf)

Maine Potable and Non Potable Water: RI002

[http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf](http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf)

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 242405

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

[http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf](http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf)

South Carolina Volatile Organic Compounds in Potable Water: 78003

### **CHEMISTRY**

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

# ESS Laboratory

Division of Thicksch Engineering, Inc.  
185 Frances Avenue, Cranston, RI 02910-2211  
Tel. (401) 461-7187 Fax (401) 461-4486  
www.esslaboratory.com

# CHAIN OF CUSTODY

Page 1 of 1

Turn Time If faster than 5 days, prior approval by laboratory is required #	Reporting Limits	ESS LAB PROJECT ID 0909336
State where samples were collected from: MA RI CT NH NJ NY ME Other	Electronic Deliverable Format: Excel Access PDF Other	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is this project for any of the following: MA-MCP Navy USACE Other		

Co. Name		Project #		Project Name (20 Char. or less)		Write Required Analysis											
Cyn Environmental		206234-CD-II		Kehoe Chrysler													
Contact Person		Address		Zip		PO#		Email Address		Type of Containers		Number of Containers		Type of Containers		Number of Containers	
Rick LaMotte		100 Tosa Dr.		08072		616599		Ride-Lamotte@cyrenet.com		EDH 4 HH Targets		VPH Chms		VPH Beta targets			
City		State		Fax #		Collection Time		COMP		GRAB		MATRIX		Sample Identification (20 Char. or less)		Pres Code	
Stoughton		MA												MD-1		2	
Telephone #		Date		Collection Time		COMP		GRAB		MATRIX		Sample Identification (20 Char. or less)		Pres Code		Type of Containers	
781-341-1777		9/25/09		11:00								MD-2		2		4	
		9/25/09		11:25								MD-3		2		4	
		9/25/09		11:35								MD-4		2		4	
		9/25/09		11:55													

Container Type: P-Poly G-Glass S-Sterile V-VOA	Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
Cooler Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Internal Use Only
Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA: <input checked="" type="checkbox"/> Pickup	Preservation Code 1- NP, 2- HCl, 3- H ₂ SO ₄ , 4- HNO ₃ , 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
Cooler Temp: 2.40	Sampled by: Big Oz
Comments:	
Relinquished by: (Signature) Big Oz	Relinquished by: (Signature) Carl Strong
Date/Time 9/25/09 14:00	Date/Time 9/28/09 14:20
Received by: (Signature) Big Oz	Received by: (Signature) Carl Strong
Date/Time 9/25/09 14:00	Date/Time 9/28/09 14:20

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

## CERTIFICATE OF ANALYSIS

Rick LaMothe  
Cyn Environmental Services  
100 Tosca Drive  
Stoughton, MA 02072

**RE: Kehoe (206734TS)**  
**ESS Laboratory Work Order Number: 1001042**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Digitally signed by Laurel Stoddard  
Date: 2010.05.27 13:47:41 -04'00'

Laurel Stoddard  
Laboratory Director

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**SAMPLE RECEIPT**

The following samples were received on January 06, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Question F: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

**Revision 1 May 27, 2010: This report has been revised to include Benzo(a)pyrene on ESS Laboratory Sample ID 1001042-05 .**

<b>Lab Number</b>	<b>SampleName</b>	<b>Matrix</b>	<b>Analysis</b>
1001042-01	MW-1	Ground Water	MA EPH04-1
1001042-02	MW-4	Ground Water	MA EPH04-1
1001042-03	MW-2	Ground Water	MA EPH04-1
1001042-04	MW-3	Ground Water	MA EPH04-1
1001042-05	B14MW3	Ground Water	MA EPH04-1



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**PROJECT NARRATIVE**

**No unusual observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

### MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:

1001042-01 through 1001042-05

Sample Matrices:	(X) Ground Water	( ) Soil/Sediment	( ) Drinking Water	( ) Other:	_____
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

As specified in MADEP

* List Release Tracking Number (RTN), if known.

Compendium of Analytical

** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method

Methods (Check all that apply)

*** 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? Yes (X) No* ( )
- 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? Yes (X) No* ( )
- C Does the data included in the report meet all the 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"? Yes (X) No* ( )
- D **VPH and EPH methods only:** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

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

- E Were all QC performance standards and recommendations for the specific methods achieved? Yes (X) No* ( )
- F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes ( ) No* (X)

****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: Laurel Stoddard

Date: January 13, 2010

Printed Name: Laurel Stoddard

Position: Laboratory Director



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-1  
Date Sampled: 01/05/10 10:30  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1001042  
ESS Laboratory Sample ID: 1001042-01  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 1/6/10 16:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	01/07/10 17:07	CTA0027	CA00609
C19-C36 Aliphatics1	ND (200)	14000	1	01/07/10 17:07	CTA0027	CA00609
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	01/07/10 23:41	CTA0043	CA00609
C11-C22 Aromatics1,2	ND (100)	200		01/07/10 23:41		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	01/07/10 23:41	CTA0043	CA00609
Acenaphthene	ND (10.0)	20	1	01/07/10 23:41	CTA0043	CA00609
Naphthalene	ND (10.0)	140	1	01/07/10 23:41	CTA0043	CA00609
Phenanthrene	ND (10.0)	40	1	01/07/10 23:41	CTA0043	CA00609
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CA00609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	59 %		40-140
Surrogate: 2-Bromonaphthalene	95 %		40-140
Surrogate: 2-Fluorobiphenyl	89 %		40-140
Surrogate: O-Terphenyl	85 %		40-140





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-4  
Date Sampled: 01/05/10 11:45  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1001042  
ESS Laboratory Sample ID: 1001042-02  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 1/6/10 16:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**MA - GW1**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (200)	700	1	01/07/10 17:57	CTA0027	CA00609
C19-C36 Aliphatics1	ND (200)	14000	1	01/07/10 17:57	CTA0027	CA00609
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	01/08/10 0:27	CTA0043	CA00609
C11-C22 Aromatics1,2	ND (100)	200		01/08/10 0:27		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	01/08/10 0:27	CTA0043	CA00609
Acenaphthene	ND (10.0)	20	1	01/08/10 0:27	CTA0043	CA00609
Naphthalene	ND (10.0)	140	1	01/08/10 0:27	CTA0043	CA00609
Phenanthrene	ND (10.0)	40	1	01/08/10 0:27	CTA0043	CA00609
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CA00609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	63 %		40-140
Surrogate: 2-Bromonaphthalene	91 %		40-140
Surrogate: 2-Fluorobiphenyl	86 %		40-140
Surrogate: O-Terphenyl	85 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-2  
Date Sampled: 01/05/10 12:50  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1001042  
ESS Laboratory Sample ID: 1001042-03  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 1/6/10 16:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	01/07/10 18:48	CTA0027	CA00609
C19-C36 Aliphatics1	ND (200)	14000	1	01/07/10 18:48	CTA0027	CA00609
<b>C11-C22 Unadjusted Aromatics1</b>	<b>105 (100)</b>	200	1	01/08/10 1:14	CTA0043	CA00609
<b>C11-C22 Aromatics1,2</b>	<b>105 (100)</b>	200		01/08/10 1:14		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	01/08/10 1:14	CTA0043	CA00609
Acenaphthene	ND (10.0)	20	1	01/08/10 1:14	CTA0043	CA00609
Naphthalene	ND (10.0)	140	1	01/08/10 1:14	CTA0043	CA00609
Phenanthrene	ND (10.0)	40	1	01/08/10 1:14	CTA0043	CA00609
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CA00609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	60 %		40-140
Surrogate: 2-Bromonaphthalene	94 %		40-140
Surrogate: 2-Fluorobiphenyl	88 %		40-140
Surrogate: O-Terphenyl	83 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-3  
Date Sampled: 01/05/10 13:40  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1001042  
ESS Laboratory Sample ID: 1001042-04  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 1/6/10 16:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	01/07/10 19:39	CTA0027	CA00609
C19-C36 Aliphatics1	ND (200)	14000	1	01/07/10 19:39	CTA0027	CA00609
<b>C11-C22 Unadjusted Aromatics1</b>	<b>338</b> (100)	200	1	01/08/10 2:01	CTA0043	CA00609
<b>C11-C22 Aromatics1,2</b>	<b>338</b> (100)	200		01/08/10 2:01		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	01/08/10 2:01	CTA0043	CA00609
Acenaphthene	ND (10.0)	20	1	01/08/10 2:01	CTA0043	CA00609
Naphthalene	ND (10.0)	140	1	01/08/10 2:01	CTA0043	CA00609
Phenanthrene	ND (10.0)	40	1	01/08/10 2:01	CTA0043	CA00609
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CA00609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	53 %		40-140
Surrogate: 2-Bromonaphthalene	94 %		40-140
Surrogate: 2-Fluorobiphenyl	87 %		40-140
Surrogate: O-Terphenyl	84 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: B14MW3  
Date Sampled: 01/05/10 14:41  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1001042  
ESS Laboratory Sample ID: 1001042-05  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 1/6/10 16:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	01/07/10 20:30	CTA0027	CA00609
C19-C36 Aliphatics1	ND (200)	14000	1	01/07/10 20:30	CTA0027	CA00609
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	01/08/10 2:48	CTA0043	CA00609
C11-C22 Aromatics1,2	ND (100)	200		01/08/10 2:48		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	01/08/10 2:48	CTA0043	CA00609
Acenaphthene	ND (10.0)	20	1	01/08/10 2:48	CTA0043	CA00609
Naphthalene	ND (10.0)	140	1	01/08/10 2:48	CTA0043	CA00609
Phenanthrene	ND (10.0)	40	1	01/08/10 2:48	CTA0043	CA00609
Benzo(a)pyrene	ND (10.0)	0.2	1	01/08/10 2:48	CTA0043	CA00609
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CA00609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	47 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	100 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	92 %		40-140
<i>Surrogate: O-Terphenyl</i>	91 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**Batch CA00609 - 3510C**

**Blank**

C19-C36 Aliphatics1	ND	200	ug/L
C9-C18 Aliphatics1	ND	200	ug/L
Decane (C10)	ND	5	ug/L
Docosane (C22)	ND	5	ug/L
Dodecane (C12)	ND	5	ug/L
Eicosane (C20)	ND	5	ug/L
Hexacosane (C26)	ND	5	ug/L
Hexadecane (C16)	ND	5	ug/L
Nonadecane (C19)	ND	5	ug/L
Nonane (C9)	ND	5	ug/L
Octacosane (C28)	ND	5	ug/L
Octadecane (C18)	ND	5	ug/L
Tetracosane (C24)	ND	5	ug/L
Tetradecane (C14)	ND	5	ug/L
Triacontane (C30)	ND	5	ug/L

*Surrogate: 1-Chlorooctadecane*      26.2      ug/L      50.00      52      40-140

**Blank**

2-Methylnaphthalene	ND	5.0	ug/L
Acenaphthene	ND	10.0	ug/L
Acenaphthylene	ND	10.0	ug/L
Anthracene	ND	10.0	ug/L
Benzo(a)anthracene	ND	10.0	ug/L
Benzo(a)pyrene	ND	10.0	ug/L
Benzo(b)fluoranthene	ND	10.0	ug/L
Benzo(g,h,i)perylene	ND	10.0	ug/L
Benzo(k)fluoranthene	ND	10.0	ug/L
C11-C22 Unadjusted Aromatics1	ND	100	ug/L
Chrysene	ND	10.0	ug/L
Dibenzo(a,h)Anthracene	ND	10.0	ug/L
Fluoranthene	ND	10.0	ug/L
Fluorene	ND	10.0	ug/L
Indeno(1,2,3-cd)Pyrene	ND	10.0	ug/L
Naphthalene	ND	10.0	ug/L
Phenanthrene	ND	10.0	ug/L
Pyrene	ND	10.0	ug/L

*Surrogate: 2-Bromonaphthalene*      41.9      mg/L      50.00      84      40-140

*Surrogate: 2-Fluorobiphenyl*      40.2      mg/L      50.00      80      40-140

*Surrogate: O-Terphenyl*      39.3      ug/L      50.00      79      40-140

**LCS**

C19-C36 Aliphatics1	286	200	ug/L	400.0	71	40-140
C9-C18 Aliphatics1	224	200	ug/L	300.0	75	40-140
Decane (C10)	28	5	ug/L	50.00	56	40-140
Docosane (C22)	33	5	ug/L	50.00	65	40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
<b>Batch CA00609 - 3510C</b>										
Dodecane (C12)	30	5	ug/L	50.00		60	40-140			
Eicosane (C20)	32	5	ug/L	50.00		65	40-140			
Hexacosane (C26)	31	5	ug/L	50.00		62	40-140			
Hexadecane (C16)	32	5	ug/L	50.00		63	40-140			
Nonadecane (C19)	33	5	ug/L	50.00		67	40-140			
Nonane (C9)	24	5	ug/L	50.00		48	30-140			
Octacosane (C28)	30	5	ug/L	50.00		61	40-140			
Octadecane (C18)	32	5	ug/L	50.00		65	40-140			
Tetracosane (C24)	32	5	ug/L	50.00		65	40-140			
Tetradecane (C14)	30	5	ug/L	50.00		60	40-140			
triacontane (C30)	31	5	ug/L	50.00		63	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>31.6</i>		ug/L	<i>50.00</i>		<i>63</i>	<i>40-140</i>			
<b>LCS</b>										
2-Methylnaphthalene	33.5	5.0	ug/L	50.00		67	40-140			
Acenaphthene	33.2	10.0	ug/L	50.00		66	40-140			
Acenaphthylene	33.8	10.0	ug/L	50.00		68	40-140			
Anthracene	35.3	10.0	ug/L	50.00		71	40-140			
Benzo(a)anthracene	37.3	10.0	ug/L	50.00		75	40-140			
Benzo(a)pyrene	40.7	10.0	ug/L	50.00		81	40-140			
Benzo(b)fluoranthene	38.6	10.0	ug/L	50.00		77	40-140			
Benzo(g,h,i)perylene	37.4	10.0	ug/L	50.00		75	40-140			
Benzo(k)fluoranthene	38.9	10.0	ug/L	50.00		78	40-140			
C11-C22 Unadjusted Aromatics1	743	100	ug/L	850.0		87	40-140			
Chrysene	38.6	10.0	ug/L	50.00		77	40-140			
Dibenzo(a,h)Anthracene	37.3	10.0	ug/L	50.00		75	40-140			
Fluoranthene	36.5	10.0	ug/L	50.00		73	40-140			
Fluorene	34.2	10.0	ug/L	50.00		68	40-140			
Indeno(1,2,3-cd)Pyrene	36.0	10.0	ug/L	50.00		72	40-140			
Naphthalene	34.0	10.0	ug/L	50.00		68	40-140			
Phenanthrene	37.5	10.0	ug/L	50.00		75	40-140			
Pyrene	36.3	10.0	ug/L	50.00		73	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>40.4</i>		mg/L	<i>50.00</i>		<i>81</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>38.6</i>		mg/L	<i>50.00</i>		<i>77</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>40.3</i>		ug/L	<i>50.00</i>		<i>81</i>	<i>40-140</i>			
<b>LCS</b>										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
<b>LCS Dup</b>										
C19-C36 Aliphatics1	248	200	ug/L	400.0		62	40-140	14	25	
C9-C18 Aliphatics1	199	200	ug/L	300.0		66	40-140	12	25	
Decane (C10)	26	5	ug/L	50.00		52	40-140	9	25	
Docosane (C22)	30	5	ug/L	50.00		60	40-140	8	25	
Dodecane (C12)	27	5	ug/L	50.00		55	40-140	10	25	
Eicosane (C20)	30	5	ug/L	50.00		60	40-140	7	25	



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
<b>Batch CA00609 - 3510C</b>										
Hexacosane (C26)	28	5	ug/L	50.00		57	40-140	8	25	
Hexadecane (C16)	29	5	ug/L	50.00		59	40-140	7	25	
Nonadecane (C19)	31	5	ug/L	50.00		62	40-140	8	25	
Nonane (C9)	22	5	ug/L	50.00		45	30-140	8	25	
Octacosane (C28)	28	5	ug/L	50.00		56	40-140	8	25	
Octadecane (C18)	30	5	ug/L	50.00		60	40-140	7	25	
Tetracosane (C24)	30	5	ug/L	50.00		60	40-140	7	25	
Tetradecane (C14)	27	5	ug/L	50.00		55	40-140	9	25	
Triacotane (C30)	29	5	ug/L	50.00		58	40-140	8	25	
<i>Surrogate: 1-Chlorooctadecane</i>	<i>27.3</i>		ug/L	<i>50.00</i>		<i>55</i>	<i>40-140</i>			
<b>LCS Dup</b>										
2-Methylnaphthalene	32.8	5.0	ug/L	50.00		66	40-140	2	25	
Acenaphthene	32.8	10.0	ug/L	50.00		66	40-140	1	25	
Acenaphthylene	33.8	10.0	ug/L	50.00		68	40-140	0.2	25	
Anthracene	35.3	10.0	ug/L	50.00		71	40-140	0.1	25	
Benzo(a)anthracene	38.3	10.0	ug/L	50.00		77	40-140	3	25	
Benzo(a)pyrene	41.3	10.0	ug/L	50.00		83	40-140	1	25	
Benzo(b)fluoranthene	39.1	10.0	ug/L	50.00		78	40-140	1	25	
Benzo(g,h,i)perylene	37.4	10.0	ug/L	50.00		75	40-140	0	25	
Benzo(k)fluoranthene	40.2	10.0	ug/L	50.00		80	40-140	3	25	
C11-C22 Unadjusted Aromatics1	774	100	ug/L	850.0		91	40-140	4	25	
Chrysene	38.8	10.0	ug/L	50.00		78	40-140	0.7	25	
Dibenzo(a,h)Anthracene	37.1	10.0	ug/L	50.00		74	40-140	0.5	25	
Fluoranthene	37.1	10.0	ug/L	50.00		74	40-140	2	25	
Fluorene	34.6	10.0	ug/L	50.00		69	40-140	1	25	
Indeno(1,2,3-cd)Pyrene	37.4	10.0	ug/L	50.00		75	40-140	4	25	
Naphthalene	33.5	10.0	ug/L	50.00		67	40-140	2	25	
Phenanthrene	36.8	10.0	ug/L	50.00		74	40-140	2	25	
Pyrene	37.0	10.0	ug/L	50.00		74	40-140	2	25	
<i>Surrogate: 2-Bromonaphthalene</i>	<i>41.8</i>		mg/L	<i>50.00</i>		<i>84</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>39.5</i>		mg/L	<i>50.00</i>		<i>79</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>37.8</i>		ug/L	<i>50.00</i>		<i>76</i>	<i>40-140</i>			
<b>LCS Dup</b>										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**Notes and Definitions**

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1001042

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01  
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179  
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750  
[http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf)

Maine Potable and Non Potable Water: RI0002  
[http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf](http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf)

Massachusetts Potable and Non Potable Water: M-RI002  
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424  
<http://www4.egov.nh.gov/des/nhelap/nameSearch.asp>

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313  
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301  
[http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf](http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf)

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Non Potable Water (RCRA), Solids and Hazardous Waste: RI002  
<http://www.nj.gov/dep/oqa/certlabs.htm>

Pennsylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752  
[http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf](http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf)

**CHEMISTRY**

A2LA Accredited: Testing Cert # 2864.01  
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)  
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141  
Lead Paint, Lead in Children's Metals Jewelry  
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

**Sample and Cooler Receipt Checklist**

Client: CYN Enviromental Services  
Client Project ID: _____  
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10010042  
Date Project Due: 1/13/10  
Days For Project: 5 Day

**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

☒ **No**

Air No.:

2. Were Custody Seals Present?

☐ **No**

3. Were Custody Seals Intact?

☐ **N/A**

4. Is Radiation count &lt; 100 CPM?

☐ **Yes**

5. Is a cooler present?

☐ **Yes**Cooler Temp: 2.0Iced With: Icepacks

6. Was COC included with samples?

☐ **Yes**

7. Was COC signed and dated by client?

☐ **Yes**

8. Does the COC match the sample

☐ **Yes**

9. Is COC complete and correct?

☐ **Yes**

10. Are the samples properly preserved?

☐ **Yes**

11. Proper sample containers used?

☐ **Yes**

12. Any air bubbles in the VOA vials?

☐ **N/A**

13. Holding times exceeded?

☐ **No**

14. Sufficient sample volumes?

☐ **Yes**

15. Any Subcontracting needed?

☐ **No**16. Are ESS labels on correct containers? **Yes|No**17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
2	Yes	1 L Glass	2	HCL
3	Yes	1 L Glass	2	HCL
4	Yes	1 L Glass	2	HCL
5	Yes	1 L Glass	2	HCL

Completed By: [Signature]Date/Time: 1/6/10Reviewed By: EDDate/Time: 1/6/10





## CERTIFICATE OF ANALYSIS

Rick LaMothe  
Cyn Environmental Services  
100 Tosca Drive  
Stoughton, MA 02072

**RE: Kehoe (206734 TS)**  
**ESS Laboratory Work Order Number: 1004376**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Digitally signed by Laurel Stoddard  
Date: 2010.05.27 13:49:43 -04'00'

Laurel Stoddard  
Laboratory Director

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**SAMPLE RECEIPT**

The following samples were received on April 26, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Question F: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

**Revision 1 May 27, 2010: This report has been revised to include Benzo(a)pyrene on ESS Laboratory Sample ID 1004376-01.**

<b>Lab Number</b>	<b>SampleName</b>	<b>Matrix</b>	<b>Analysis</b>
1004376-01	B14 MW3	Ground Water	MA EPH04-1
1004376-02	MW-1	Ground Water	MA EPH04-1
1004376-03	MW-3	Ground Water	MA EPH04-1
1004376-04	MW-2	Ground Water	MA EPH04-1
1004376-05	MW-4	Ground Water	MA EPH04-1



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**PROJECT NARRATIVE**

**No unusual observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)





# ESS Laboratory

Division of Thielsch Engineering, Inc.

# BAL Laboratory

The Microbiology Division  
of Thielsch Engineering, Inc.



## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

## MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:

1004376-01 through 1004376-05

Sample Matrices:	<input checked="" type="checkbox"/> Ground Water	<input type="checkbox"/> Soil/Sediment	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Other: _____
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( ) 7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020 ( ) 9014M** ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S*** ( ) 7196A ( )

As specified in MADEP

* List Release Tracking Number (RTN), if known.

Compendium of Analytical

** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method

Methods (Check all that apply)

*** 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? Yes (X) No* ( )
- 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? Yes (X) No* ( )
- C Does the data included in the report meet all the 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"? Yes (X) No* ( )
- D **VPH and EPH methods only:** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

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

- E Were all QC performance standards and recommendations for the specific methods achieved? Yes (X) No* ( )
- F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes ( ) No* (X)

****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: Laurel Stoddard

Date: May 03, 2010

Printed Name: Laurel Stoddard

Position: Laboratory Director



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: B14 MW3  
Date Sampled: 04/23/10 09:00  
Percent Solids: N/A  
Initial Volume: 980  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1004376  
ESS Laboratory Sample ID: 1004376-01  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 4/27/10 14:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (204)	700	1	04/28/10 3:07	CTD0192	CD02712
<b>C19-C36 Aliphatics1</b>	<b>206 (204)</b>	14000	1	04/28/10 3:07	CTD0192	CD02712
<b>C11-C22 Unadjusted Aromatics1</b>	<b>157 (102)</b>	200	1	04/28/10 2:07	CTD0193	CD02712
<b>C11-C22 Aromatics1,2</b>	<b>157 (102)</b>	200		04/28/10 2:07		[CALC]
2-Methylnaphthalene	ND (5.1)	10	1	04/28/10 2:07	CTD0193	CD02712
Acenaphthene	ND (10.2)	20	1	04/28/10 2:07	CTD0193	CD02712
Naphthalene	ND (10.2)	140	1	04/28/10 2:07	CTD0193	CD02712
Phenanthrene	ND (10.2)	40	1	04/28/10 2:07	CTD0193	CD02712
Benzo(a)pyrene	ND (10.2)	0.2	1	04/28/10 2:07	CTD0193	CD02712
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CD02712

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	57 %		40-140
Surrogate: 2-Bromonaphthalene	98 %		40-140
Surrogate: 2-Fluorobiphenyl	93 %		40-140
Surrogate: O-Terphenyl	76 %		40-140





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-1  
Date Sampled: 04/23/10 10:35  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1004376  
ESS Laboratory Sample ID: 1004376-02  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 4/27/10 14:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	04/28/10 3:59	CTD0192	CD02712
C19-C36 Aliphatics1	ND (200)	14000	1	04/28/10 3:59	CTD0192	CD02712
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	04/28/10 2:54	CTD0193	CD02712
C11-C22 Aromatics1,2	ND (100)	200		04/28/10 2:54		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	04/28/10 2:54	CTD0193	CD02712
Acenaphthene	ND (10.0)	20	1	04/28/10 2:54	CTD0193	CD02712
Naphthalene	ND (10.0)	140	1	04/28/10 2:54	CTD0193	CD02712
Phenanthrene	ND (10.0)	40	1	04/28/10 2:54	CTD0193	CD02712
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CD02712

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	79 %		40-140
Surrogate: 2-Bromonaphthalene	92 %		40-140
Surrogate: 2-Fluorobiphenyl	89 %		40-140
Surrogate: O-Terphenyl	78 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-3  
Date Sampled: 04/23/10 11:43  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1004376  
ESS Laboratory Sample ID: 1004376-03  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 4/27/10 14:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (200)	700	1	04/28/10 4:50	CTD0192	CD02712
C19-C36 Aliphatics1	ND (200)	14000	1	04/28/10 4:50	CTD0192	CD02712
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	04/28/10 6:18	CTD0193	CD02712
C11-C22 Aromatics1,2	ND (100)	200		04/28/10 6:18		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	04/28/10 6:18	CTD0193	CD02712
Acenaphthene	ND (10.0)	20	1	04/28/10 6:18	CTD0193	CD02712
Naphthalene	ND (10.0)	140	1	04/28/10 6:18	CTD0193	CD02712
Phenanthrene	ND (10.0)	40	1	04/28/10 6:18	CTD0193	CD02712
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CD02712

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	75 %		40-140
Surrogate: 2-Bromonaphthalene	100 %		40-140
Surrogate: 2-Fluorobiphenyl	97 %		40-140
Surrogate: O-Terphenyl	90 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-2  
Date Sampled: 04/23/10 12:49  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1004376  
ESS Laboratory Sample ID: 1004376-04  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 4/27/10 14:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**MA - GW1**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (200)	700	1	04/28/10 5:40	CTD0192	CD02712
C19-C36 Aliphatics1	ND (200)	14000	1	04/28/10 5:40	CTD0192	CD02712
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	04/28/10 7:05	CTD0193	CD02712
C11-C22 Aromatics1,2	ND (100)	200		04/28/10 7:05		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	04/28/10 7:05	CTD0193	CD02712
Acenaphthene	ND (10.0)	20	1	04/28/10 7:05	CTD0193	CD02712
Naphthalene	ND (10.0)	140	1	04/28/10 7:05	CTD0193	CD02712
Phenanthrene	ND (10.0)	40	1	04/28/10 7:05	CTD0193	CD02712
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CD02712

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	87 %		40-140
Surrogate: 2-Bromonaphthalene	99 %		40-140
Surrogate: 2-Fluorobiphenyl	93 %		40-140
Surrogate: O-Terphenyl	92 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe  
Client Sample ID: MW-4  
Date Sampled: 04/23/10 13:37  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1004376  
ESS Laboratory Sample ID: 1004376-05  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: SEP  
Prepared: 4/27/10 14:00

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

		<b>MA - GW1</b>				
<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (200)	700	1	04/28/10 6:31	CTD0192	CD02712
C19-C36 Aliphatics1	ND (200)	14000	1	04/28/10 6:31	CTD0192	CD02712
C11-C22 Unadjusted Aromatics1	ND (100)	200	1	04/28/10 7:52	CTD0193	CD02712
C11-C22 Aromatics1,2	ND (100)	200		04/28/10 7:52		[CALC]
2-Methylnaphthalene	ND (5.0)	10	1	04/28/10 7:52	CTD0193	CD02712
Acenaphthene	ND (10.0)	20	1	04/28/10 7:52	CTD0193	CD02712
Naphthalene	ND (10.0)	140	1	04/28/10 7:52	CTD0193	CD02712
Phenanthrene	ND (10.0)	40	1	04/28/10 7:52	CTD0193	CD02712
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CD02712

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	82 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	98 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	95 %		40-140
<i>Surrogate: O-Terphenyl</i>	89 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**Batch CD02712 - 3510C**

**Blank**

C19-C36 Aliphatics1	ND	200	ug/L
C9-C18 Aliphatics1	ND	200	ug/L
Decane (C10)	ND	5	ug/L
Docosane (C22)	ND	5	ug/L
Dodecane (C12)	ND	5	ug/L
Eicosane (C20)	ND	5	ug/L
Hexacosane (C26)	ND	5	ug/L
Hexadecane (C16)	ND	5	ug/L
Nonadecane (C19)	ND	5	ug/L
Nonane (C9)	ND	5	ug/L
Octacosane (C28)	ND	5	ug/L
Octadecane (C18)	ND	5	ug/L
Tetracosane (C24)	ND	5	ug/L
Tetradecane (C14)	ND	5	ug/L
Triacotane (C30)	ND	5	ug/L

*Surrogate: 1-Chlorooctadecane* 44.7 ug/L 50.00 89 40-140

**Blank**

2-Methylnaphthalene	ND	5.0	ug/L
Acenaphthene	ND	10.0	ug/L
Acenaphthylene	ND	10.0	ug/L
Anthracene	ND	10.0	ug/L
Benzo(a)anthracene	ND	10.0	ug/L
Benzo(a)pyrene	ND	10.0	ug/L
Benzo(b)fluoranthene	ND	10.0	ug/L
Benzo(g,h,i)perylene	ND	10.0	ug/L
Benzo(k)fluoranthene	ND	10.0	ug/L
C11-C22 Unadjusted Aromatics1	ND	100	ug/L
Chrysene	ND	10.0	ug/L
Dibenzo(a,h)Anthracene	ND	10.0	ug/L
Fluoranthene	ND	10.0	ug/L
Fluorene	ND	10.0	ug/L
Indeno(1,2,3-cd)Pyrene	ND	10.0	ug/L
Naphthalene	ND	10.0	ug/L
Phenanthrene	ND	10.0	ug/L
Pyrene	ND	10.0	ug/L

*Surrogate: 2-Bromonaphthalene* 45.6 mg/L 50.00 91 40-140

*Surrogate: 2-Fluorobiphenyl* 43.4 mg/L 50.00 87 40-140

*Surrogate: O-Terphenyl* 45.7 ug/L 50.00 91 40-140

**LCS**

C19-C36 Aliphatics1	440	200	ug/L	400.0	110	40-140
C9-C18 Aliphatics1	264	200	ug/L	300.0	88	40-140
Decane (C10)	31	5	ug/L	50.00	62	40-140
Docosane (C22)	47	5	ug/L	50.00	94	40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**Batch CD02712 - 3510C**

Dodecane (C12)	37	5	ug/L	50.00		74	40-140			
Eicosane (C20)	46	5	ug/L	50.00		92	40-140			
Hexacosane (C26)	45	5	ug/L	50.00		90	40-140			
Hexadecane (C16)	42	5	ug/L	50.00		84	40-140			
Nonadecane (C19)	46	5	ug/L	50.00		91	40-140			
Nonane (C9)	24	5	ug/L	50.00		48	30-140			
Octacosane (C28)	44	5	ug/L	50.00		87	40-140			
Octadecane (C18)	44	5	ug/L	50.00		88	40-140			
Tetracosane (C24)	47	5	ug/L	50.00		94	40-140			
Tetradecane (C14)	38	5	ug/L	50.00		77	40-140			
triacontane (C30)	43	5	ug/L	50.00		86	40-140			

*Surrogate: 1-Chlorooctadecane*

*45.2 ug/L 50.00 90 40-140*

**LCS**

2-Methylnaphthalene	40.8	5.0	ug/L	50.00		82	40-140			
Acenaphthene	41.2	10.0	ug/L	50.00		82	40-140			
Acenaphthylene	41.6	10.0	ug/L	50.00		83	40-140			
Anthracene	45.7	10.0	ug/L	50.00		91	40-140			
Benzo(a)anthracene	46.7	10.0	ug/L	50.00		93	40-140			
Benzo(a)pyrene	48.9	10.0	ug/L	50.00		98	40-140			
Benzo(b)fluoranthene	49.5	10.0	ug/L	50.00		99	40-140			
Benzo(g,h,i)perylene	48.0	10.0	ug/L	50.00		96	40-140			
Benzo(k)fluoranthene	44.4	10.0	ug/L	50.00		89	40-140			
C11-C22 Unadjusted Aromatics1	949	100	ug/L	850.0		112	40-140			
Chrysene	46.8	10.0	ug/L	50.00		94	40-140			
Dibenzo(a,h)Anthracene	51.4	10.0	ug/L	50.00		103	40-140			
Fluoranthene	47.1	10.0	ug/L	50.00		94	40-140			
Fluorene	44.1	10.0	ug/L	50.00		88	40-140			
Indeno(1,2,3-cd)Pyrene	42.3	10.0	ug/L	50.00		85	40-140			
Naphthalene	38.4	10.0	ug/L	50.00		77	40-140			
Phenanthrene	47.6	10.0	ug/L	50.00		95	40-140			
Pyrene	47.0	10.0	ug/L	50.00		94	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>48.0</i>		<i>mg/L</i>	<i>50.00</i>		<i>96</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>46.7</i>		<i>mg/L</i>	<i>50.00</i>		<i>93</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>45.6</i>		<i>ug/L</i>	<i>50.00</i>		<i>91</i>	<i>40-140</i>			

**LCS**

2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			

**LCS Dup**

C19-C36 Aliphatics1	423	200	ug/L	400.0		106	40-140	4	25	
C9-C18 Aliphatics1	263	200	ug/L	300.0		88	40-140	0.6	25	
Decane (C10)	32	5	ug/L	50.00		64	40-140	4	25	
Docosane (C22)	47	5	ug/L	50.00		93	40-140	1	25	
Dodecane (C12)	38	5	ug/L	50.00		77	40-140	4	25	
Eicosane (C20)	46	5	ug/L	50.00		92	40-140	0.02	25	



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

**Batch CD02712 - 3510C**

Hexacosane (C26)	46	5	ug/L	50.00		91	40-140	1	25	
Hexadecane (C16)	43	5	ug/L	50.00		86	40-140	3	25	
Nonadecane (C19)	47	5	ug/L	50.00		93	40-140	2	25	
Nonane (C9)	25	5	ug/L	50.00		50	30-140	4	25	
Octacosane (C28)	45	5	ug/L	50.00		90	40-140	3	25	
Octadecane (C18)	46	5	ug/L	50.00		92	40-140	4	25	
Tetracosane (C24)	47	5	ug/L	50.00		94	40-140	0.6	25	
Tetradecane (C14)	39	5	ug/L	50.00		79	40-140	3	25	
Triacontane (C30)	44	5	ug/L	50.00		88	40-140	3	25	

*Surrogate: 1-Chlorooctadecane*

46.9 ug/L 50.00 94 40-140

**LCS Dup**

2-Methylnaphthalene	37.5	5.0	ug/L	50.00		75	40-140	8	25	
Acenaphthene	37.9	10.0	ug/L	50.00		76	40-140	8	25	
Acenaphthylene	39.6	10.0	ug/L	50.00		79	40-140	5	25	
Anthracene	45.2	10.0	ug/L	50.00		90	40-140	1	25	
Benzo(a)anthracene	46.8	10.0	ug/L	50.00		94	40-140	0.06	25	
Benzo(a)pyrene	49.5	10.0	ug/L	50.00		99	40-140	1	25	
Benzo(b)fluoranthene	48.8	10.0	ug/L	50.00		98	40-140	1	25	
Benzo(g,h,i)perylene	49.8	10.0	ug/L	50.00		100	40-140	4	25	
Benzo(k)fluoranthene	44.5	10.0	ug/L	50.00		89	40-140	0.2	25	
C11-C22 Unadjusted Aromatics1	901	100	ug/L	850.0		106	40-140	5	25	
Chrysene	47.2	10.0	ug/L	50.00		94	40-140	0.8	25	
Dibenzo(a,h)Anthracene	52.1	10.0	ug/L	50.00		104	40-140	1	25	
Fluoranthene	46.8	10.0	ug/L	50.00		94	40-140	0.8	25	
Fluorene	41.5	10.0	ug/L	50.00		83	40-140	6	25	
Indeno(1,2,3-cd)Pyrene	43.0	10.0	ug/L	50.00		86	40-140	1	25	
Naphthalene	34.3	10.0	ug/L	50.00		69	40-140	11	25	
Phenanthrene	47.8	10.0	ug/L	50.00		96	40-140	0.3	25	
Pyrene	45.5	10.0	ug/L	50.00		91	40-140	3	25	
<i>Surrogate: 2-Bromonaphthalene</i>	44.5		mg/L	50.00		89	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	44.8		mg/L	50.00		90	40-140			
<i>Surrogate: O-Terphenyl</i>	46.5		ug/L	50.00		93	40-140			

**LCS Dup**

2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

**Notes and Definitions**

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte





# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

# BAL Laboratory

*The Microbiology Division  
of Thielsch Engineering, Inc.*



## CERTIFICATE OF ANALYSIS

Client Name: Cyn Environmental Services

Client Project ID: Kehoe

ESS Laboratory Work Order: 1004376

### ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

#### ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

[http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf)

Maine Potable and Non Potable Water: RI0002

[http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf](http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf)

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/nameSearch.asp>

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

[http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf](http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf)

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Non Potable Water (RCRA), Solids and Hazardous Waste: RI002

<http://www.nj.gov/dep/oqa/certlabs.htm>

Pennsylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752

[http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf](http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf)

#### CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

**Sample and Cooler Receipt Checklist**

Client: CYN Enviromental Services  
Client Project ID: _____  
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10040376  
Date Project Due: 5/3/10  
Days For Project: 5 Day

**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

☐ * No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count &lt; 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 4.5Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No16. Are ESS labels on correct containers? ☒ Yes ☐ No17. Were samples received intact? ☒ Yes ☐ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
2	Yes	1 L Glass	2	HCL
3	Yes	1 L Glass	2	HCL
4	Yes	1 L Glass	2	HCL
5	Yes	1 L Glass	2	HCL

Completed By: _____

Date/Time: _____

Reviewed By: _____

Date/Time: _____



# ESS Laboratory

Division of Thielsch Engineering, Inc.  
185 Frances Avenue, Cranston, RI 02910-2211  
Tel. (401) 461-7181 Fax (401) 461-4486  
www.esslaboratory.com

# CHAIN OF CUSTODY

Page 1 of 1

Turn Time If faster than 5 days, prior approval by laboratory is required #	Standard Other
States where samples were collected from: MA RI CT NH NJ NY ME	Other
Is this project for any of the following: USACE Navy	Other
Reporting Limits S\ GWI	Electronic Deliverable Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Format: Excel Access PDF	Other

Co. Name CYN Environmental		Project # 206734TS		Project Name (20 Char. or less) Kehoe						
Contact Person Rick Wrotecki		Address 984 Worcester St		City Worcester						
Telephone # 800 242 5818		State MA		Zip 01819						
Fax # 508 858 1555		Email Address rick_wrotecki@cyn		PO# 618192						
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
1	4/23/10	9:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	B14 MW3	2	2	6	X
2	4/23/10	10:35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-1	2	2	6	X
3	4/23/10	11:43	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-3	2	2	6	X
4	4/23/10	12:49	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-2	2	2	6	X
5	4/23/10	1:37	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MW-4	2	2	6	X

Container Type: P-Poly G-Glass S-Sterile V-VOA		Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters	
Cooler Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Internal Use Only <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Code 1- NP, 2- HCl, 3- H ₂ SO ₄ , 4- HNO ₃ , 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- Zn Act, 9-	
Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NA: <input checked="" type="checkbox"/> <input type="checkbox"/> Pickup	Sampled by: Chris Wrotecki	
Cooler Temp: 4.5		Comments:	
Relinquished by: (Signature) Chris Wrotecki	Date/Time 4/26/10 12:25	Relinquished by: (Signature) Chris Wrotecki	Date/Time 4/26/10 12:25
Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time
Received by: (Signature)	Date/Time	Received by: (Signature)	Date/Time



*CERTIFICATE OF ANALYSIS*

Rick LaMothe  
Cyn Environmental Services  
100 Tosca Drive  
Stoughton, MA 02072

**RE: Kehoe Wellesley (20673400TS)**  
**ESS Laboratory Work Order Number: 1007147**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director



**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**SAMPLE RECEIPT**

The following samples were received on July 13, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Question I: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

<u>Lab Number</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Analysis</u>
1007147-01	MW-1	Ground Water	MA EPH04-1
1007147-02	MW-4	Ground Water	MA EPH04-1
1007147-03	MW-3	Ground Water	MA EPH04-1
1007147-04	MW-2	Ground Water	MA EPH04-1
1007147-05	MW3	Ground Water	MA EPH04-1



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**PROJECT NARRATIVE**

**MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons**

1007147-05 [Aromatic Range result has been corrected for identified cartridge contaminant.](#)

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

1007147-01 [Aromatic Range result has been corrected for identified cartridge contaminant.](#)

1007147-02 [Aromatic Range result has been corrected for identified cartridge contaminant.](#)

1007147-03 [Aromatic Range result has been corrected for identified cartridge contaminant.](#)

1007147-04 [Aromatic Range result has been corrected for identified cartridge contaminant.](#)

**No other observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**MassDEP Analytical Protocol Certification Form**

MADEP RTN: _____

This form provides certification for the following data set: **1007147-01 through 1007147-05**

Matrices: ☒ Ground Water/Surface Water      ☐ Soil/Sediment      ☐ Drinking Water      ☐ Air      ☐ Other: _____

**CAM Protocol** (check all that apply below):

<input type="checkbox"/> 8260 VOC CAM II A	<input type="checkbox"/> 7470/7471 Hg CAM III B	<input type="checkbox"/> MassDEP VPH CAM IV A	<input type="checkbox"/> 8081 Pesticides CAM V B	<input type="checkbox"/> 7196 Hex Cr CAM VI B	<input type="checkbox"/> MassDEP APH CAM IX A
<input type="checkbox"/> 8270 SVOC CAM II B	<input type="checkbox"/> 7010 Metals CAM III C	<input checked="" type="checkbox"/> MassDEP EPH CAM IV B	<input type="checkbox"/> 8151 Herbicides CAM V C	<input type="checkbox"/> 8330 Explosives CAM VIII A	<input type="checkbox"/> TO-15 VOC CAM IX B
<input type="checkbox"/> 6010 Metals CAM III A	<input type="checkbox"/> 6020 Metals CAM III D	<input type="checkbox"/> 8082 PCB CAM V A	<input type="checkbox"/> 6860 Perchlorate CAM VIII B	<input type="checkbox"/> 9014 Total Cyanide/PAC CAM VI A	

***Affirmative responses to questions A through F are required for "Presumptive Certainty" status***

- |   |                                                                                                                                                                                                                             |                |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes (X) No ( ) |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?                                                                                                        | Yes (X) No ( ) |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?                                        | Yes (X) No ( ) |
| D | Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?                  | Yes (X) No ( ) |
| E | a. VPH, EPH, APH and TO-15 only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).                                                | Yes (X) No ( ) |
|   | b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?                                                                                                                                      | Yes ( ) No ( ) |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?                                   | Yes (X) No ( ) |

***Responses to Questions G, H and I below are required for "Presumptive Certainty" status***

- |   |                                                                                                                                                                                                                                                                                                                                   |                 |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?<br><b><i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.</i></b> | Yes (X) No ( )* |
| H | Were <b>all</b> QC performance standards specified in the CAM protocol(s) achieved?                                                                                                                                                                                                                                               | Yes (X) No ( )* |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)?                                                                                                                                                                                                                                    | Yes ( ) No (X)* |

****All negative responses must be addressed in an attached laboratory 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: Laurel Stoddard  
Printed Name: Laurel Stoddard

Date: July 20, 2010  
Position: Laboratory Director



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW-1  
Date Sampled: 07/12/10 10:00  
Percent Solids: N/A  
Initial Volume: 980  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1007147  
ESS Laboratory Sample ID: 1007147-01  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: ML  
Prepared: 7/15/10 12:00

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (102)	700	1	07/16/10 4:54	CTG0100	CG01519
C19-C36 Aliphatics1	ND (102)	14000	1	07/16/10 4:54	CTG0100	CG01519
<b>C11-C22 Unadjusted Aromatics1</b>	<b>120 (102)</b>	200	1	07/15/10 23:51	CTG0101	CG01519
<b>C11-C22 Aromatics1,2</b>	<b>120 (102)</b>	200		07/15/10 23:51		[CALC]
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CG01519

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	78 %		40-140
Surrogate: 2-Bromonaphthalene	70 %		40-140
Surrogate: 2-Fluorobiphenyl	84 %		40-140
Surrogate: O-Terphenyl	83 %		40-140





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW-4  
Date Sampled: 07/12/10 11:15  
Percent Solids: N/A  
Initial Volume: 960  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1007147  
ESS Laboratory Sample ID: 1007147-02  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: ML  
Prepared: 7/15/10 12:00

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

**MA - GW1**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (104)	700	1	07/16/10 5:45	CTG0100	CG01519
C19-C36 Aliphatics1	ND (104)	14000	1	07/16/10 5:45	CTG0100	CG01519
C11-C22 Unadjusted Aromatics1	ND (104)	200	1	07/16/10 0:37	CTG0101	CG01519
C11-C22 Aromatics1,2	ND (104)	200		07/16/10 0:37		[CALC]
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CG01519

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	80 %		40-140
Surrogate: 2-Bromonaphthalene	76 %		40-140
Surrogate: 2-Fluorobiphenyl	86 %		40-140
Surrogate: O-Terphenyl	70 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW-3  
Date Sampled: 07/12/10 01:00  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1007147  
ESS Laboratory Sample ID: 1007147-03  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: ML  
Prepared: 7/15/10 12:00

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

**MA - GW1**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (100)	700	1	07/16/10 6:37	CTG0100	CG01519
C19-C36 Aliphatics1	ND (100)	14000	1	07/16/10 6:37	CTG0100	CG01519
<b>C11-C22 Unadjusted Aromatics1</b>	<b>133 (100)</b>	200	1	07/16/10 1:24	CTG0101	CG01519
<b>C11-C22 Aromatics1,2</b>	<b>133 (100)</b>	200		07/16/10 1:24		[CALC]
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CG01519

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	90 %		40-140
Surrogate: 2-Bromonaphthalene	78 %		40-140
Surrogate: 2-Fluorobiphenyl	86 %		40-140
Surrogate: O-Terphenyl	88 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW-2  
Date Sampled: 07/12/10 01:55  
Percent Solids: N/A  
Initial Volume: 970  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1007147  
ESS Laboratory Sample ID: 1007147-04  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: ML  
Prepared: 7/15/10 12:00

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
<b>C9-C18 Aliphatics1</b>	<b>198 (103)</b>	700	1	07/16/10 7:27	CTG0100	CG01519
<b>C19-C36 Aliphatics1</b>	<b>115 (103)</b>	14000	1	07/16/10 7:27	CTG0100	CG01519
<b>C11-C22 Unadjusted Aromatics1</b>	<b>116 (103)</b>	200	1	07/16/10 2:11	CTG0101	CG01519
<b>C11-C22 Aromatics1,2</b>	<b>116 (103)</b>	200		07/16/10 2:11		[CALC]
<b>Preservative:</b>	<b>pH &lt;= 2</b>					CG01519

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	96 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	74 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	83 %		40-140
<i>Surrogate: O-Terphenyl</i>	85 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley  
Client Sample ID: MW3  
Date Sampled: 07/12/10 15:00  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 1007147  
ESS Laboratory Sample ID: 1007147-05  
Sample Matrix: Ground Water  
Units: ug/L  
Analyst: ML  
Prepared: 7/15/10 12:00

**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<b>MA - GW1</b>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
		<u>Limit</u>	<u>DF</u>			
C9-C18 Aliphatics1	ND (100)	700	1	07/16/10 8:18	CTG0100	CG01519
C19-C36 Aliphatics1	117 (100)	14000	1	07/16/10 8:18	CTG0100	CG01519
C11-C22 Unadjusted Aromatics1	108 (100)	200	1	07/16/10 2:58	CTG0101	CG01519
C11-C22 Aromatics1,2	104 (100)	200		07/16/10 19:03		[CALC]
Benzo(a)pyrene	0.42 (0.10)	0.2	1	07/16/10 19:03	CTG0110	CG01519
Preservative:	pH <= 2					CG01519

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	77 %		40-140
Surrogate: 2-Bromonaphthalene	71 %		40-140
Surrogate: 2-Fluorobiphenyl	86 %		40-140
Surrogate: O-Terphenyl	88 %		40-140



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons										
<b>Batch CG01519 - 3510C</b>										
<b>Blank</b>										
C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
Preservative:	pH <= 2		*							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>50.7</i>		ug/L	<i>50.00</i>		<i>101</i>	<i>40-140</i>			
<b>Blank</b>										
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Preservative:	pH <= 2		*							
<i>Surrogate: 2-Bromonaphthalene</i>	<i>41.5</i>		mg/L	<i>50.00</i>		<i>83</i>	<i>40-140</i>			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>41.5</i>		mg/L	<i>50.00</i>		<i>83</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>45.8</i>		mg/L	<i>50.00</i>		<i>92</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>45.8</i>		mg/L	<i>50.00</i>		<i>92</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>48.5</i>		ug/L	<i>50.00</i>		<i>97</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>48.5</i>		ug/L	<i>50.00</i>		<i>97</i>	<i>40-140</i>			
<b>Blank</b>										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.10	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.20	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.20	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Preservative:	pH <= 2		*							
Pyrene	ND	0.20	ug/L							
<b>LCS</b>										
C19-C36 Aliphatics1	347	100	ug/L	400.0		87	40-140			
C9-C18 Aliphatics1	272	100	ug/L	300.0		91	40-140			
Decane (C10)	29	5	ug/L	50.00		59	40-140			
Docosane (C22)	45	5	ug/L	50.00		90	40-140			
Dodecane (C12)	34	5	ug/L	50.00		67	40-140			
Eicosane (C20)	45	5	ug/L	50.00		91	40-140			
Hexacosane (C26)	46	5	ug/L	50.00		91	40-140			
Hexadecane (C16)	42	5	ug/L	50.00		84	40-140			
Nonadecane (C19)	46	5	ug/L	50.00		91	40-140			



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

**Batch CG01519 - 3510C**

Nonane (C9)	22	5	ug/L	50.00		43	30-140			
Octacosane (C28)	44	5	ug/L	50.00		88	40-140			
Octadecane (C18)	44	5	ug/L	50.00		89	40-140			
Tetracosane (C24)	46	5	ug/L	50.00		92	40-140			
Tetradecane (C14)	38	5	ug/L	50.00		76	40-140			
triacontane (C30)	40	5	ug/L	50.00		80	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>52.3</i>		ug/L	<i>50.00</i>		<i>105</i>	<i>40-140</i>			

**LCS**

2-Methylnaphthalene	38.2	5.0	ug/L	50.00		76	40-140			
Acenaphthene	38.1	5.0	ug/L	50.00		76	40-140			
Acenaphthylene	41.2	5.0	ug/L	50.00		82	40-140			
Anthracene	46.4	5.0	ug/L	50.00		93	40-140			
Benzo(a)anthracene	43.2	5.0	ug/L	50.00		86	40-140			
Benzo(a)pyrene	47.3	5.0	ug/L	50.00		95	40-140			
Benzo(b)fluoranthene	42.2	5.0	ug/L	50.00		84	40-140			
Benzo(g,h,i)perylene	47.1	5.0	ug/L	50.00		94	40-140			
Benzo(k)fluoranthene	42.8	5.0	ug/L	50.00		86	40-140			
C11-C22 Unadjusted Aromatics1	813	100	ug/L	850.0		96	40-140			
C11-C22 Unadjusted Aromatics1	813	100	ug/L	850.0		96	40-140			
Chrysene	44.6	5.0	ug/L	50.00		89	40-140			
Dibenzo(a,h)Anthracene	42.7	5.0	ug/L	50.00		85	40-140			
Fluoranthene	45.4	5.0	ug/L	50.00		91	40-140			
Fluorene	40.8	5.0	ug/L	50.00		82	40-140			
Indeno(1,2,3-cd)Pyrene	40.4	5.0	ug/L	50.00		81	40-140			
Naphthalene	38.2	5.0	ug/L	50.00		76	40-140			
Phenanthrene	46.3	5.0	ug/L	50.00		93	40-140			
Pyrene	44.9	5.0	ug/L	50.00		90	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>36.0</i>		mg/L	<i>50.00</i>		<i>72</i>	<i>40-140</i>			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>36.0</i>		mg/L	<i>50.00</i>		<i>72</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>44.1</i>		mg/L	<i>50.00</i>		<i>88</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>44.1</i>		mg/L	<i>50.00</i>		<i>88</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>46.6</i>		ug/L	<i>50.00</i>		<i>93</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>46.6</i>		ug/L	<i>50.00</i>		<i>93</i>	<i>40-140</i>			

**LCS**

2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			

**LCS**

2-Methylnaphthalene	3.59	0.20	ug/L	5.000		72	40-140			
Acenaphthene	4.08	0.20	ug/L	5.000		82	40-140			
Acenaphthylene	4.04	0.20	ug/L	5.000		81	40-140			
Anthracene	3.71	0.20	ug/L	5.000		74	40-140			
Benzo(a)anthracene	3.21	0.20	ug/L	5.000		64	40-140			
Benzo(a)pyrene	4.48	0.10	ug/L	5.000		90	40-140			
Benzo(b)fluoranthene	4.14	0.20	ug/L	5.000		83	40-140			



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
<b>Batch CG01519 - 3510C</b>										
Benzo(g,h,i)perylene	4.19	0.20	ug/L	5.000		84	40-140			
Benzo(k)fluoranthene	4.10	0.20	ug/L	5.000		82	40-140			
Chrysene	4.36	0.20	ug/L	5.000		87	40-140			
Dibenzo(a,h)Anthracene	4.31	0.20	ug/L	5.000		86	40-140			
Fluoranthene	4.16	0.20	ug/L	5.000		83	40-140			
Fluorene	3.59	0.20	ug/L	5.000		72	40-140			
Indeno(1,2,3-cd)Pyrene	4.37	0.20	ug/L	5.000		87	40-140			
Naphthalene	3.28	0.20	ug/L	5.000		66	40-140			
Phenanthrene	3.76	0.20	ug/L	5.000		75	40-140			
Pyrene	4.05	0.20	ug/L	5.000		81	40-140			
<b>LCS Dup</b>										
C19-C36 Aliphatics1	376	100	ug/L	400.0		94	40-140	8	25	
C9-C18 Aliphatics1	288	100	ug/L	300.0		96	40-140	5	25	
Decane (C10)	31	5	ug/L	50.00		63	40-140	6	25	
Docosane (C22)	49	5	ug/L	50.00		97	40-140	7	25	
Dodecane (C12)	36	5	ug/L	50.00		73	40-140	8	25	
Eicosane (C20)	48	5	ug/L	50.00		97	40-140	6	25	
Hexacosane (C26)	49	5	ug/L	50.00		97	40-140	7	25	
Hexadecane (C16)	45	5	ug/L	50.00		89	40-140	6	25	
Nonadecane (C19)	49	5	ug/L	50.00		98	40-140	7	25	
Nonane (C9)	23	5	ug/L	50.00		46	30-140	6	25	
Octacosane (C28)	47	5	ug/L	50.00		94	40-140	7	25	
Octadecane (C18)	47	5	ug/L	50.00		95	40-140	7	25	
Tetracosane (C24)	49	5	ug/L	50.00		98	40-140	7	25	
Tetradecane (C14)	41	5	ug/L	50.00		81	40-140	7	25	
Triacontane (C30)	43	5	ug/L	50.00		86	40-140	6	25	
<i>Surrogate: 1-Chlorooctadecane</i>	<i>55.0</i>		ug/L	<i>50.00</i>		<i>110</i>	<i>40-140</i>			
<b>LCS Dup</b>										
2-Methylnaphthalene	38.9	5.0	ug/L	50.00		78	40-140	2	20	
Acenaphthene	39.0	5.0	ug/L	50.00		78	40-140	2	20	
Acenaphthylene	41.6	5.0	ug/L	50.00		83	40-140	1	20	
Anthracene	47.2	5.0	ug/L	50.00		94	40-140	2	20	
Benzo(a)anthracene	45.5	5.0	ug/L	50.00		91	40-140	5	20	
Benzo(a)pyrene	50.1	5.0	ug/L	50.00		100	40-140	6	20	
Benzo(b)fluoranthene	42.2	5.0	ug/L	50.00		84	40-140	0.09	20	
Benzo(g,h,i)perylene	49.6	5.0	ug/L	50.00		99	40-140	5	20	
Benzo(k)fluoranthene	46.7	5.0	ug/L	50.00		93	40-140	9	20	
C11-C22 Unadjusted Aromatics1	851	100	ug/L	850.0		100	40-140	5	25	
C11-C22 Unadjusted Aromatics1	851	100	ug/L	850.0		100	40-140	5	25	
Chrysene	45.6	5.0	ug/L	50.00		91	40-140	2	20	
Dibenzo(a,h)Anthracene	44.7	5.0	ug/L	50.00		89	40-140	5	20	
Fluoranthene	47.1	5.0	ug/L	50.00		94	40-140	4	20	
Fluorene	42.5	5.0	ug/L	50.00		85	40-140	4	20	
Indeno(1,2,3-cd)Pyrene	43.0	5.0	ug/L	50.00		86	40-140	6	20	



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons**

**Batch CG01519 - 3510C**

Naphthalene	38.1	5.0	ug/L	50.00		76	40-140	0.4	20	
Phenanthrene	48.2	5.0	ug/L	50.00		96	40-140	4	20	
Pyrene	46.7	5.0	ug/L	50.00		93	40-140	4	20	
Surrogate: 2-Bromonaphthalene	37.1		mg/L	50.00		74	40-140			
Surrogate: 2-Bromonaphthalene	37.1		mg/L	50.00		74	40-140			
Surrogate: 2-Fluorobiphenyl	43.6		mg/L	50.00		87	40-140			
Surrogate: 2-Fluorobiphenyl	43.6		mg/L	50.00		87	40-140			
Surrogate: O-Terphenyl	48.6		ug/L	50.00		97	40-140			
Surrogate: O-Terphenyl	48.6		ug/L	50.00		97	40-140			

**LCS Dup**

2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

**LCS Dup**

2-Methylnaphthalene	3.68	0.20	ug/L	5.000		74	40-140	2	25	
Acenaphthene	4.03	0.20	ug/L	5.000		81	40-140	1	25	
Acenaphthylene	3.95	0.20	ug/L	5.000		79	40-140	2	25	
Anthracene	3.59	0.20	ug/L	5.000		72	40-140	3	25	
Benzo(a)anthracene	3.36	0.20	ug/L	5.000		67	40-140	5	25	
Benzo(a)pyrene	4.50	0.10	ug/L	5.000		90	40-140	0.4	25	
Benzo(b)fluoranthene	4.28	0.20	ug/L	5.000		86	40-140	3	25	
Benzo(g,h,i)perylene	4.27	0.20	ug/L	5.000		85	40-140	2	25	
Benzo(k)fluoranthene	4.21	0.20	ug/L	5.000		84	40-140	3	25	
Chrysene	4.40	0.20	ug/L	5.000		88	40-140	0.9	25	
Dibenzo(a,h)Anthracene	4.16	0.20	ug/L	5.000		83	40-140	4	25	
Fluoranthene	4.14	0.20	ug/L	5.000		83	40-140	0.5	25	
Fluorene	3.43	0.20	ug/L	5.000		69	40-140	5	25	
Indeno(1,2,3-cd)Pyrene	4.31	0.20	ug/L	5.000		86	40-140	1	25	
Naphthalene	3.30	0.20	ug/L	5.000		66	40-140	0.6	25	
Phenanthrene	3.69	0.20	ug/L	5.000		74	40-140	2	25	
Pyrene	4.08	0.20	ug/L	5.000		82	40-140	0.7	25	





*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**Notes and Definitions**

Z-06	pH $\leq$ 2
U	Analyte included in the analysis, but not detected
CC	Aromatic Range result has been corrected for identified cartridge contaminant.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte



*CERTIFICATE OF ANALYSIS*

Client Name: Cyn Environmental Services  
Client Project ID: Kehoe Wellesley

ESS Laboratory Work Order: 1007147

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01  
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179  
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750  
[http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf)

Maine Potable and Non Potable Water: RI0002  
[http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf](http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf)

Massachusetts Potable and Non Potable Water: M-RI002  
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424  
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313  
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301  
[http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf](http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf)

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002  
<http://www.nj.gov/dep/oqa/certlabs.htm>

Pennsylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752  
[http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf](http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf)

**CHEMISTRY**

A2LA Accredited: Testing Cert # 2864.01  
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)  
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141  
Lead Paint, Lead in Children's Metals Jewelry  
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

**Sample and Cooler Receipt Checklist**Client: CYN Enviromental Services

Client Project ID: _____

Shipped/Delivered Via: ESS CourierESS Project ID: 10070147Date Project Due: 7/20/10Days For Project: 5 Day**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

☒ No

Air No.:

2. Were Custody Seals Present?

☐ No

3. Were Custody Seals Intact?

☐ N/A

4. Is Radiation count &lt; 100 CPM?

☐ Yes

5. Is a cooler present?

☐ YesCooler Temp: 4.8Iced With: Icepacks

6. Was COC included with samples?

☐ Yes

7. Was COC signed and dated by client?

☐ Yes

8. Does the COC match the sample

☐ Yes

9. Is COC complete and correct?

☐ Yes

10. Are the samples properly preserved?

☐ Yes

11. Proper sample containers used?

☐ Yes

12. Any air bubbles in the VOA vials?

☐ N/A

13. Holding times exceeded?

☐ No

14. Sufficient sample volumes?

☐ Yes

15. Any Subcontracting needed?

☐ No16. Are ESS labels on correct containers? ☒ Yes ☒ No17. Were samples received intact? ☒ Yes ☒ No

ESS Sample IDs: _____

Sub Lab: _____

Analysis: _____

TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	HCL
2	Yes	1 L Glass	2	HCL
3	Yes	1 L Glass	2	HCL
4	Yes	1 L Glass	2	HCL
5	Yes	1 L Glass	2	HCL

Completed By: EODate/Time: 7/13/10Reviewed By: UPSDate/Time: 7/13/10

# CHAIN OF CUSTODY

Page 1 of 1

*Division of Thielsch Engineering, Inc.*  
185 Frances Avenue, Cranston, RI 02910-2211  
Tel. (401) 461-7181 Fax (401) 461-4486  
[www.csllaboratory.com](http://www.csllaboratory.com)

Turn Time	<input checked="" type="checkbox"/> Standard	Other	ESS LAB PROJECT ID
If faster than 5 days, prior approval by laboratory is required # _____			
State where samples were collected from:			
MA	RI	CT	NH
NY	ME	Other	
Is this project for any of the following:			
MA-MCD	Navy	USACE	Other
Reporting Limits			Electronic Deliverable
51 GWS1			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Format: Excel			Access PDF <input checked="" type="checkbox"/> Other

Co. Name		Project #		Project Name (20 Char. or less)		Write Required Analysis												
Contact Person		Address		Zip		PO#		Email Address		Sample Identification (20 Char. or less)		Pres Code		Number of Containers		Type of Containers		
City	State	Telephone #	Fax #	Date	Collection Time	COMP	GRAB	MATRIX	ESS LAB Sample #	DATE	TIME	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	
CYN Environmental	MA	781-341-1777		7/12/10	10:20AM	✓	✓	603	01	7/12/10	10:20AM	MW-1	02	02	02	02	02	02
Richard Motte Benveniste	MA	781-341-1777		7/12/10	11:15AM	✓	✓	603	02	7/12/10	11:15AM	MW-4	02	02	02	02	02	02
Richard Motte Benveniste	MA	781-341-1777		7/12/10	1:00AM	✓	✓	603	03	7/12/10	1:00AM	MW-3	02	02	02	02	02	02
Richard Motte Benveniste	MA	781-341-1777		7/12/10	1:55AM	✓	✓	603	04	7/12/10	1:55AM	MW-2	02	02	02	02	02	02
Richard Motte Benveniste	MA	781-341-1777		7/12/10	3:00AM	✓	✓	603	05	7/12/10	3:00AM	MW-3	02	02	02	02	02	02

Container Type: P-Poly	G-Glass	S-Sterile	V-VOA	Marix: S-Soil	SD-Solid	D-Sludge	WW-Waste Water	GW-Ground Water	SW-Surface Water	DW-Drinking Water	O-Oil	W-Wipes	F-Filters
Cooler Present	<u>Yes</u>	No	Internal Use Only				Preservation Code 1- NP; 2- HCl; 3- H ₂ SO ₄ ; 4- HNO ₃ ; 5- NaOH; 6- MeOH; 7- Asorbic Acid; 8- ZnAct; 9- _____						
Seals Intact	<u>Yes</u>	No	NA: <u>  </u>	<u>  </u> Pickup	Sampled by: <u>Ben Dively CNIS M4ENNA</u>								
Cooler Temp: <u>4.8°</u>	[ ] Technicians _____				Comments: <u>Defection limit for benz A by Ben was to be less than 0.2 ug/l</u>								
Relinquished by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 12:10 PM	Received by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 12:05 PM	Relinquished by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 14:05					
Relinquished by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 12:10 PM	Received by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 12:05 PM	Relinquished by: (Signature) <u>Ben Dively</u>	Date/Time	7-13-10 14:05					

By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt  
10/26/04 A