



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

JUL 24 2013

Matt Guigli
Project Manager
Ernest Guigli & Sons Inc.
10 Tech Circle
Natick, MA 01760

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. The "Commons at Southfield Highlands II," site located at Parkview
Street/Memorial Avenue, Weymouth, MA 02190, Norfolk County; Authorization #
MAG910592

Dear Mr. Guigli:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Ernest Guigli & Sons, Inc., by the firm Lockwood Remediation Technologies LLC, 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 that exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the absence of dilution to ponds, EPA determined that the DFR for each parameter is in the

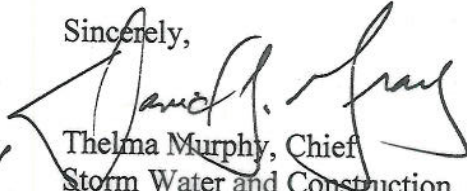
one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities)
Therefore, the limits for copper of 5.2 ug/L, and iron of 1,000 ug/L, are required to achieve permit compliance at your site

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 September 30, 2013. 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, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Kenneth C. Morse, Weymouth DPW
Paul Lockwood, LRT

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

NPDES Authorization Number:	MAG910592
Authorization Issued:	July, 2013
Facility/Site Name:	Commons at Southfield Highlands II
Facility/Site Address:	Parkview Street/Memorial Grove Avenue, Weymouth, Massachusetts 02190, Norfolk County
	Email address of owner: pmahoney@corcoranmgmt.com
Legal Name of Operator:	Ernest Guigli and Sons, Inc.
Operator contact name, title, and Address:	Matt Guigli, Project Manager, 10 Tech Circle Natick, MA 01760, Middlesex County
	Email: Not Provided
Estimated date of Completion:	September 30, 2014
Category and Sub-Category:	Category III. Contaminated Construction Dewatering. Sub-category A. General Urban Fill Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Unnamed Retention Pond

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/

	<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)
		ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L
	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

	<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)
	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
	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)</u> <u>11/12</u>	<u>Minimum level=ML</u>
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		Freshwater	Saltwater		
	39. Antimony	5.6/ML	10		
	40. Arsenic **	10/ML	20	36/ML	20
	41. Cadmium **	0.2/ML	10	8.9/ML	10
	42. Chromium III (trivalent) **	48.8/ML	15	100/ML	15
	43. Chromium VI (hexavalent) **	11.4/ML	10	50.3/ML	10
✓	44. Copper **	5.2/ML	15	3.7/ML	15
	45. Lead **	1.3/ML	20	8.5/ML	20
	46. Mercury **	0.9/ML	0.2	1.1/ML	0.2
	47. Nickel **	29/ML	20	8.2/ML	20
	48. Selenium **	5/ML	20	71/ML	20
	49. Silver	1.2/ML	10	2.2/ML	10
	50. Zinc **	66.6/ML	15	85.6/ML	15
✓	51. Iron	1,000/ML	20		

	Other Parameters	Limit
✓	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 $DF \times 1,000 \text{ ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ ug/L}$, 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



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Fax: 888.835.0617
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July 8, 2013

U.S. Environmental Protection Agency—Region 1
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, Massachusetts 02109-3912
Attn.: Remediation General Permit NOI Processing

**Reference: Notice of Intent
NPDES Remediation General Permit
The Commons at Southfield Highlands II
Weymouth, Massachusetts
LRT Reference #2-1098**

To whom it may concern:

On behalf of Ernest Guigli & Sons, Inc. (Guigli), Lockwood Remediation Technologies, LLC (LRT) has prepared this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP), Massachusetts General Permit (MAG910000). This NOI was prepared in accordance with the general requirements of the NPDES and related guidance documentation provided by the US Environmental Protection Agency (EPA). The completed NOI form is provided in Appendix A.

Site Information

This NOI has been prepared for the management of water generated from dewatering at a construction project for residential housing referred to as The Commons at Southfield Highlands II in Weymouth, Massachusetts (the Site). Please refer to Figure 1 Site Plan for a locus map and an overview of the immediate area surrounding the Site. The work area is bounded to the north by Memorial Grove Avenue, to the west by Parkview Street, to the south by Trotter Road and to the east by Snow Bird Avenue as depicted on Figure 2 Site Plan. Proposed discharge location is to a storm water outfall which discharges to a retention pond to the west of the Site as depicted in Figure 3 Proposed Dewatering Discharge Location.

Work Summary

The work scope involves the construction of residential homes which includes excavation for the installation of below grade structures and soil supported slab-on-grades at the Site. This work requires dewatering within the excavation to complete work in the dry. Water generated from the excavation will be handled in accordance with A Best Management Practices Plan included as Appendix B. To characterize water from the excavation LRT partially utilized groundwater samples previously collected

by McPhail Associates July 26, 2012 and supplemented the remainder of the NPDES RGP requirements with a sample collected by LRT on July 3, 2013. These samples were analyzed for the parameters specified for this RGP NOI. Laboratory data reports for these samples are provided in Appendix C.

Discharge and Receiving Surface Water Information

Based on analytical results of samples collected by LRT and McPhail, there were no detectable concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals (except for copper and iron) or cyanide that exceeded the proposed discharge concentrations. Total suspended solids (TSS), iron and copper exceeded the discharge criteria however these elevated concentrations detected in the water characterization however are assumed to be associated with the TSS. The TSS is expected to be significantly reduced via settling occurring in influent equalization tank and also by the filtration that occurs as part of the wastewater treatment plant provided. Refer to Figure 4 for a proposed water treatment system layout.

Calculation of Dilution Criteria

The discharge point for the Site is to a drainage pond and therefore since it is a standing water body, the calculation of a site specific dilution criteria is not applicable.

Consultation with Federal Services

LRT reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (MassGIS) and the Massachusetts Division of Fisheries and Wildlife (MassWildlife; Natural Heritage and Endangered Species Program), and the U.S. National Parks Service Natural Historic Places (NPS). Based on this review, neither the Site nor the point where the proposed discharge reaches the receiving surface water body are Areas of Critical Environmental Concern (ACEC), Habitats of Rare Wetland Wildlife, Habitats of Rare Species or Estimated Habitats of Rare Wildlife or listed as a National Historic Place. Refer to Appendix D for supporting documentation.

Coverage under NPDES RGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP. On behalf of Guigli, we are requesting coverage under the NPDES RGP for the discharge of wastewater during construction activities to the drainage pond located adjacent to the Site.

The enclosed NOI form provides required information on the general site conditions, discharge, treatment system, receiving water, and consultation with federal services. For this project, Guigli is the operator that has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

Please feel free to contact us at 774-450-7177 or at plockwood@lrt-llc.net if you have any questions or if you require additional information.

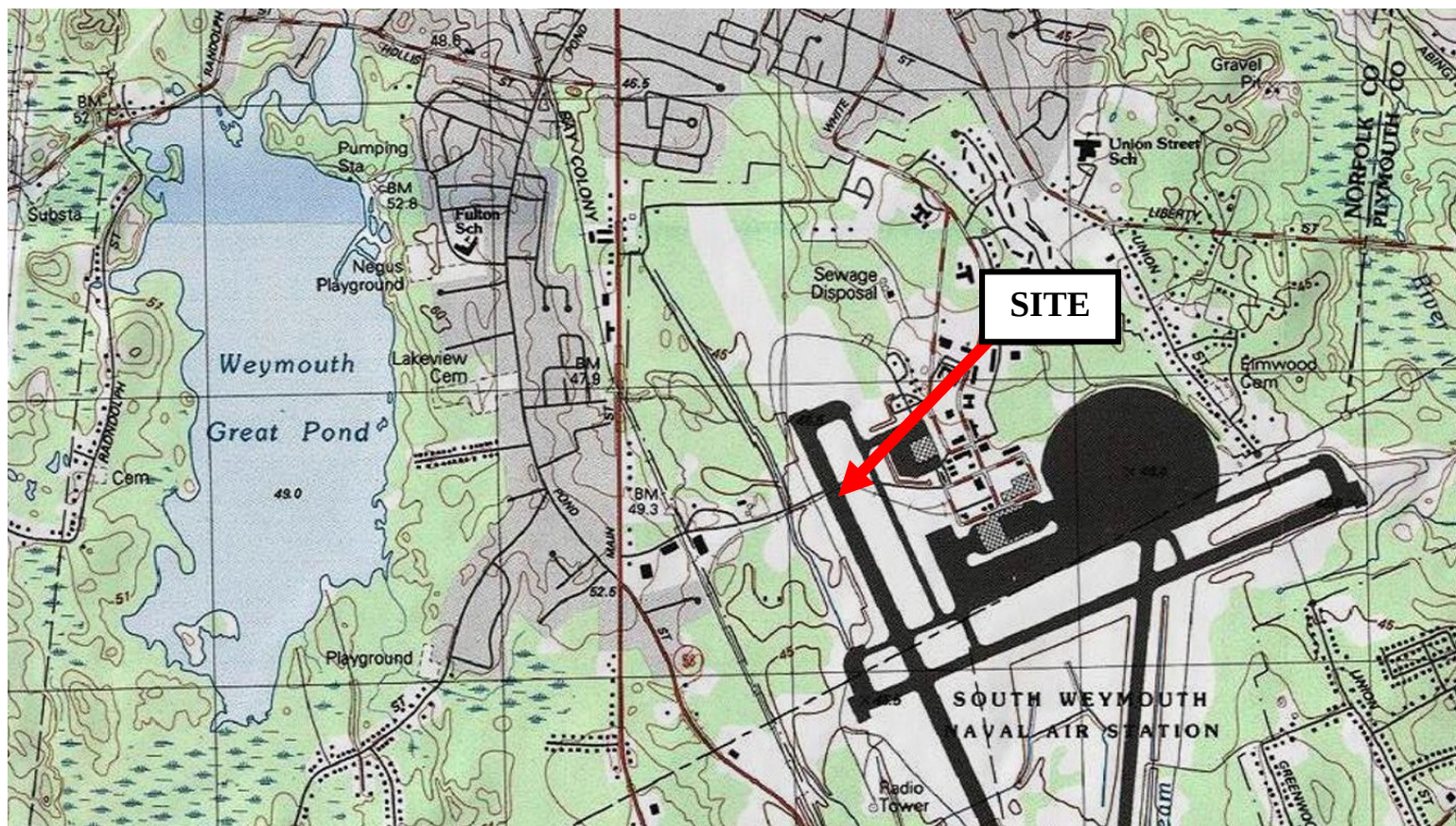
Sincerely,
Lockwood Remediation Technologies, LLC

Paul Lockwood

Paul Lockwood
President

Attachments: Figure 1 Locus Plan
 Figure 2 Site Plan
 Figure 3 Proposed Dewatering Discharge Location
 Figure 4 Proposed System Layout
 Appendix A – NOI Form
 Appendix B – Best Management Practices Plan
 Appendix C – Laboratory Data
 Appendix D – Federal Services Supporting Documentation

Figures



Source: METI/NASA, Esri, DeLorme, NAVTEQ, USGS, USDA, EPA, TomTom | Copyright: © 2013 National Geographic Society, i-cubed



Site Location:

Latitude: 42.156138

Longitude: -70.945824

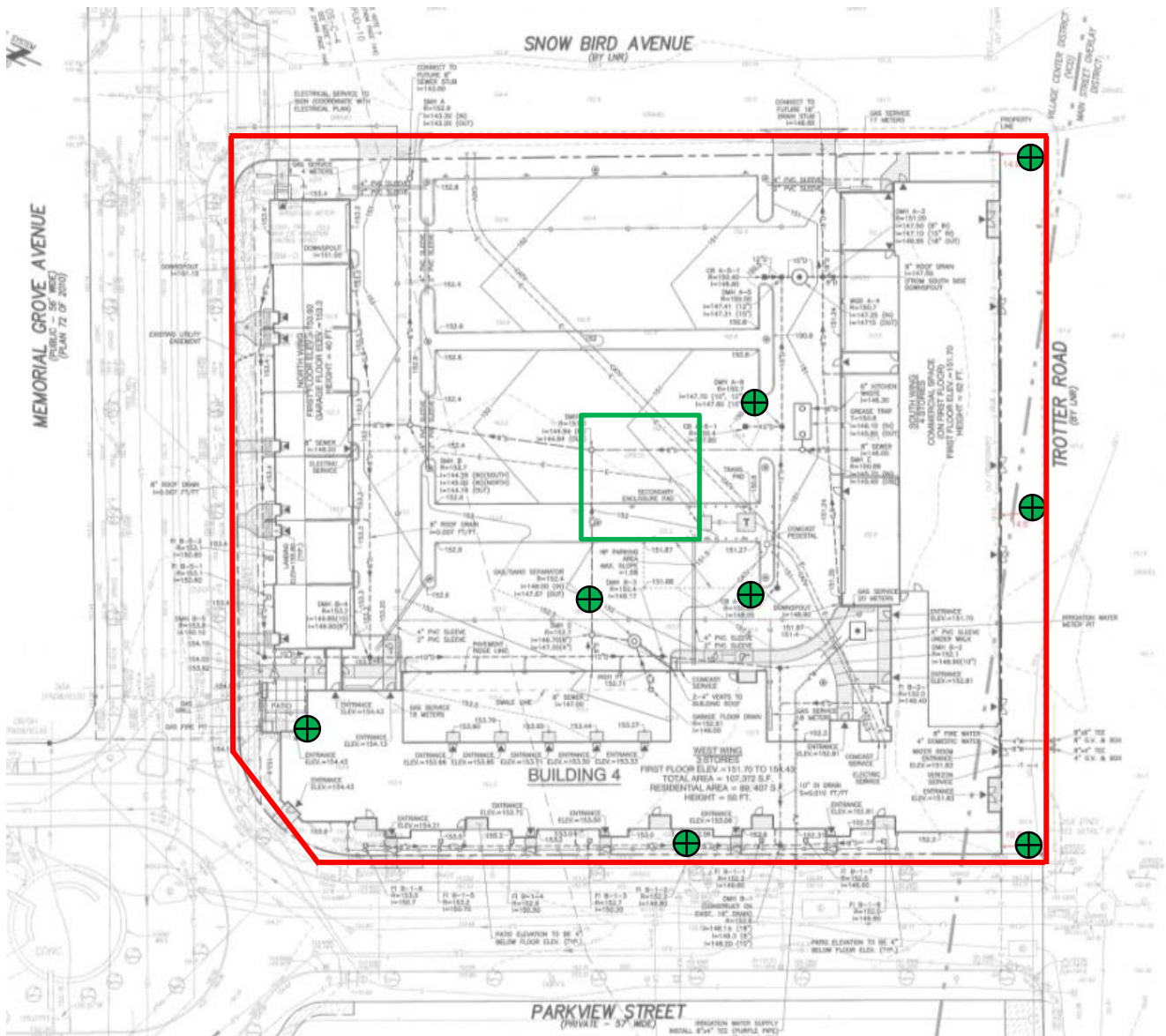


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Figure 1 – Locus Plan

Ernest Guigli & Sons, Inc.

The Commons at Southfield Highlands II
Weymouth, Massachusetts



Source: HWMoore Associat, Inc. May 22, 2013

Notes

- Figure not to scale.

Key

- Work Area ———
- Dewatering Well ●
- Proposed Treatment System Location ———



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Figure 2 – Site Plan
Ernest Guigli & Sons, Inc.
The Commons at Southfield Highlands II
Weymouth, Massachusetts



Source: NHD, Esri, DeLorme, NAVTEQ, USGS, USDA, EPA, Intermap | Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

KEY

Proposed Treatment System Discharge Point

Proposed Discharge Point

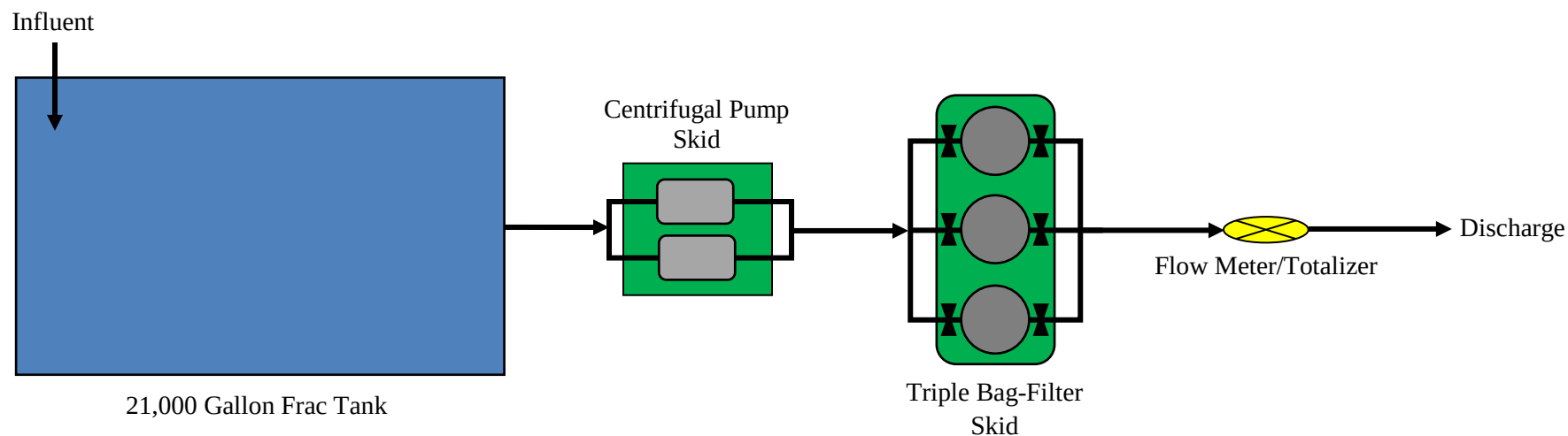
Proposed Treatment System Location



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Figure 3 – Proposed Dewatering Discharge Location

Ernest Guigli & Sons, Inc.
The Commons at Southfield Highlands II
Weymouth, Massachusetts



Notes

1. Generic layout only.
2. Figure not to scale.
3. System rated for 300 GPM



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Figure 4 – Proposed System Layout
Ernest Guigli & Sons, Inc.
The Commons at Southfield Highlands II South
Weymouth, Massachusetts

Appendix A
NOI Form

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) ____
---------------------------------------	---

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: The Commons at Southfield Highlands II

Operator signature:



Printed Name & Title: Matt Guigli, Project Manager

Date: July 8, 2013

Appendix B
Best Management Practices Plan



127 Hartwell Street, Suite 3
West Boylston, Massachusetts 01583
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

BEST MANAGEMENT PRACTICES PLAN
National Pollutant Discharge Elimination System – Remediation General Permit
Temporary Construction Dewatering
The Commons at Southfield Highlands II – Weymouth, Massachusetts

A Notice of Intent (NOI) for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) on behalf of Ernest Guigli & Sons, Inc. (Giugli) by Lockwood Remediation Technologies, LLC (LRT) in anticipation of temporary construction site dewatering planned to occur during proposed installation of below grade structures at the above referenced site (the Site). This Best Management Practices Plan (BMPP) was prepared in accordance with the general requirements of the NPDES RGP, and related guidance documentation provided by the EPA. The BMPP is included as an Appendix to the NOI and will be posted at the Site during the time of the work as specified in the NOI.

Water Treatment and Management

Construction dewatering will be conducted from either sumps or deep wells located from the perimeter or inside the excavation. The treatment system will include an equalization tank, pumps, and filtration to reduce concentrations of total suspended solids (TSS), iron and copper. This NOI has been prepared for the management of dewatering from the Site; please refer to Figure 1 Locus Plan for an overview of the immediate area surrounding the Site. The proposed work area is referred to as The Commons at Southfield Highlands II as depicted on Figure 2 Site Plan. Proposed discharge locations adjacent to the Site is presented on Figure 3.

Discharge Monitoring and Compliance

Routine Operation & Maintenance (O&M) will be completed on the water treatment system. Typical monitoring includes checking the condition of the treatment system and the collection of samples throughout the treatment system to verify the treatment system discharge is in compliance with the RGP. In the event that the system effluent is not within the discharge criteria of the RGP, modification to the treatment system may occur until discharge compliance can be consistently achieved. Please refer to Figure 4 for a layout of the proposed treatment system.

The total monthly discharge will be monitored by a non-resettable flow meter and totalizer. Monthly monitoring reports will be compiled and maintained at the Site. Employees who have direct or indirect responsibility for enduring compliance with the RGP will be trained by the treatment system operator.

Management of Treatment System Materials

Potential sources of pollutants from the Site include TSS, and naturally occurring metals associated with the TSS. Dewatering effluent will be pumped directly to the treatment system from the excavation via deep wells and/or sumps to minimize handling. The general contractor at the Site will establish staging areas on the Site away from the excavation and treatment system. Sediment collected in the frac tank used in the treatment system will be characterized and disposed of as soil at an appropriate receiving facility in accordance with the applicable laws and regulations. Any bag filters will be containerized and disposed of to an appropriate receiving facility.

Appendix C

Laboratory Data

ANALYTICAL REPORT



Monday, July 08, 2013

Paul Lockwood
LRT, LLC
127 Hartwell Street, Suite 3
W. Boylston, MA 01583

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (774) 450-7177

FAX:

Project: 2-1098
Location: South Weymouth

Order No.: 1307033

Dear Paul Lockwood:

GeoLabs, Inc. received 1 sample(s) on 7/3/2013 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - RI (LA000252)

Accredited in Accordance with NELAC

Date: 08-Jul-13

CLIENT: LRT, LLC
Project: 2-1098
Lab Order: 1307033

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

TRC was analyzed outside of the 15-minute holding time.

SIGNATURE:



LAB DIRECTOR

PRINTED NAME: David Mick

DATE: 07/08/13

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 08-Jul-13

CLIENT: LRT, LLC
 Lab Order: 1307033
 Project: 2-1098
 Lab ID: 1307033-001

Client Sample ID: GW070313
 Collection Date: 7/3/2013
 Date Received: 7/3/2013
 Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL SUSPENDED SOLIDS - SM2540D

Analyst: CR

Prep Method:

Prep Date:

Total Suspended Solids	157	4.00		mg/L	1	7/5/2013
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TOTAL METALS BY ICP - SW6010C

Analyst: QS

Prep Method: (SW3010A)

Prep Date: 7/8/2013 1:37:21 PM

Copper	0.0390	0.0100		mg/L	1	7/8/2013
Iron	30.4	0.0500		mg/L	5	7/8/2013

SEMIVOLATILE ORGANICS - SW8270D

Analyst: Jsi

Prep Method: (SW3510)

Prep Date: 7/5/2013 9:21:03 AM

2,3,4,6-Tetrachlorophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2,4,5-Trichlorophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2,4,6-Trichlorophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2,4-Dichlorophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2,4-Dimethylphenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2,4-Dinitrophenol	ND	5.10		µg/L	1	7/8/2013 2:48:00 PM
2-Chlorophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2-Methylphenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
2-Nitrophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
3-Methylphenol/4-Methylphenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
4,6-Dinitro-2-Methylphenol	ND	5.10		µg/L	1	7/8/2013 2:48:00 PM
4-Chloro-3-Methylphenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
4-Nitrophenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Bis(2-Ethylhexyl)Phthalate	1.32	1.02		µg/L	1	7/8/2013 2:48:00 PM
Butyl Benzyl Phthalate	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Diethyl Phthalate	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Dimethyl Phthalate	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Di-n-Butyl Phthalate	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Di-n-Octyl Phthalate	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Pentachlorophenol	ND	2.55		µg/L	1	7/8/2013 2:48:00 PM
Phenol	ND	1.02		µg/L	1	7/8/2013 2:48:00 PM
Surr: 2,4,6-Tribromophenol	70.4	15-110		%REC	1	7/8/2013 2:48:00 PM
Surr: 2-Fluorobiphenyl	68.2	30-130		%REC	1	7/8/2013 2:48:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside recovery limits

BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 08-Jul-13

CLIENT: LRT, LLC

Client Sample ID: GW070313

Lab Order: 1307033

Collection Date: 7/3/2013

Project: 2-1098

Date Received: 7/3/2013

Lab ID: 1307033-001

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANICS - SW8270D

Analyst: Jsi

Prep Method: (SW3510)

Prep Date: 7/5/2013 9:21:03 AM

Surr: 2-Fluorophenol	43.0	15-110	%REC	1	7/8/2013 2:48:00 PM
Surr: Nitrobenzene-d5	66.4	30-130	%REC	1	7/8/2013 2:48:00 PM
Surr: Phenol-d6	24.0	15-110	%REC	1	7/8/2013 2:48:00 PM
Surr: Terphenyl-d14	106	30-130	%REC	1	7/8/2013 2:48:00 PM

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

1,1,1-Trichloroethane	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,1,2-Trichloroethane	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,1-Dichloroethane	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,1-Dichloroethene	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,2-Dichlorobenzene	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,2-Dichloroethane	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,3-Dichlorobenzene	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
1,4-Dichlorobenzene	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
Acetone	ND	10.0	µg/L	1	7/5/2013 1:58:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
cis-1,2-Dichloroethene	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
t-Butyl Alcohol	ND	20.0	µg/L	1	7/5/2013 1:58:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	7/5/2013 1:58:00 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	7/5/2013 1:58:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	7/5/2013 1:58:00 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	7/5/2013 1:58:00 PM
Surr: Toluene-d8	103	70-130	%REC	1	7/5/2013 1:58:00 PM

EDB - SIM METHOD

Analyst: ZC

Prep Method:

Prep Date:

1,2-Dibromoethane	ND	0.020	µg/L	1	7/5/2013
Surr: Toluene-d8	100	70-130	%REC	1	7/5/2013

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reported Date:** 08-Jul-13**CLIENT:** LRT, LLC**Client Sample ID:** GW070313**Lab Order:** 1307033**Collection Date:** 7/3/2013**Project:** 2-1098**Date Received:** 7/3/2013**Lab ID:** 1307033-001**Matrix:** GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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CYANIDE, TOTAL - SM4500-CN-C,E

Analyst: WFR

Prep Method:**Prep Date:**

Cyanide, Total	ND	0.0100		mg/L	1	7/8/2013
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TOTAL RESIDUAL CHLORINE - HACH 8167

Analyst: RP

Prep Method:**Prep Date:**

Total Residual Chlorine	ND	0.200	H	mg/L	1	7/3/2013 2:20:00 PM
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NOTES:

+ Spike recovery indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811



ANALYTICAL REPORT

Lab Number:	L1213408
Client:	McPhail Associates 2269 Massachusetts Avenue Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	PARCEL R-1 SOUTHFIELD
Project Number:	5421.9.00
Report Date:	08/06/12

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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.

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



Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1213408-01	B-1 (OW)	WEYMOUTH, MA	07/26/12 10:00
L1213408-02	B-6 (OW)	WEYMOUTH, MA	07/26/12 11:30
L1213408-03	B-9 (OW)	WEYMOUTH, MA	07/26/12 08:15

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

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.

An affirmative response to questions A through F is 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?	NO
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

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



Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

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: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1213408-01, -02, and -03, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00220), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Acetone.

The continuing calibration standard, associated with L1213408-01, -02, and -03, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics SIM

In reference to question I:

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

VPH

In reference to question I:

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

EPH

In reference to question I:

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

Metals

In reference to question A:

L1213408-03 was received at the laboratory requiring filtration for Dissolved Metals; however, the sample was filtered beyond the 24 hour required holding time for filtration. The client was notified and the results are

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Case Narrative (continued)

reported.

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:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 08/06/12

ORGANICS

VOLATILES

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-01
Client ID: B-1 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 08/01/12 11:15
Analyst: MM

Date Collected: 07/26/12 10:00
Date Received: 07/26/12
Field Prep: Not Specified

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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-01
 Client ID: B-1 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 10:00
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	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	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-01
 Client ID: B-1 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 10:00
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	116		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-02
Client ID: B-6 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 08/01/12 11:47
Analyst: MM

Date Collected: 07/26/12 11:30
Date Received: 07/26/12
Field Prep: Not Specified

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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-02
 Client ID: B-6 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 11:30
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	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	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-02
 Client ID: B-6 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 11:30
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	120		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-03
Client ID: B-9 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 08/01/12 12:20
Analyst: MM

Date Collected: 07/26/12 08:15
Date Received: 07/26/12
Field Prep: Not Specified

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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-03
 Client ID: B-9 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 08:15
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	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	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
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

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-03
 Client ID: B-9 (OW)
 Sample Location: WEYMOUTH, MA

Date Collected: 07/26/12 08:15
 Date Received: 07/26/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

1,4-Dioxane	ND		ug/l	250	--	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	127		70-130

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 08/01/12 08:32
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG552242-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 08/01/12 08:32
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG552242-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 08/01/12 08:32
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG552242-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	--

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG552242-1 WG552242-2								
Methylene chloride	104		96		70-130	8		20
1,1-Dichloroethane	99		99		70-130	0		20
Chloroform	113		108		70-130	5		20
Carbon tetrachloride	116		120		70-130	3		20
1,2-Dichloropropane	100		93		70-130	7		20
Dibromochloromethane	96		104		70-130	8		20
1,1,2-Trichloroethane	92		100		70-130	8		20
Tetrachloroethene	90		94		70-130	4		20
Chlorobenzene	94		98		70-130	4		20
Trichlorofluoromethane	128		124		70-130	3		20
1,2-Dichloroethane	119		117		70-130	2		20
1,1,1-Trichloroethane	112		113		70-130	1		20
Bromodichloromethane	107		110		70-130	3		20
trans-1,3-Dichloropropene	90		96		70-130	6		20
cis-1,3-Dichloropropene	102		102		70-130	0		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	85		101		70-130	17		20
1,1,2,2-Tetrachloroethane	95		108		70-130	13		20
Benzene	98		94		70-130	4		20
Toluene	92		97		70-130	5		20
Ethylbenzene	92		93		70-130	1		20



Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD		RPD Limits	
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits	RPD	Qual	RPD	Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG552242-1 WG552242-2										
Chloromethane	102		102		70-130		0		20	
Bromomethane	120		123		70-130		2		20	
Vinyl chloride	112		107		70-130		5		20	
Chloroethane	113		110		70-130		3		20	
1,1-Dichloroethene	120		115		70-130		4		20	
trans-1,2-Dichloroethene	108		101		70-130		7		20	
Trichloroethene	108		106		70-130		2		20	
1,2-Dichlorobenzene	94		101		70-130		7		20	
1,3-Dichlorobenzene	93		105		70-130		12		20	
1,4-Dichlorobenzene	95		103		70-130		8		20	
Methyl tert butyl ether	105		104		70-130		1		20	
p/m-Xylene	94		96		70-130		2		20	
o-Xylene	94		96		70-130		2		20	
cis-1,2-Dichloroethene	110		102		70-130		8		20	
Dibromomethane	106		102		70-130		4		20	
1,2,3-Trichloropropane	96		107		70-130		11		20	
Styrene	97		100		70-130		3		20	
Dichlorodifluoromethane	117		115		70-130		2		20	
Acetone	100		98		70-130		2		20	
Carbon disulfide	112		114		70-130		2		20	
2-Butanone	110		99		70-130		11		20	



Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD		RPD Limits	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Qual	RPD Limits	
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG552242-1 WG552242-2										
4-Methyl-2-pentanone	99		103		70-130		4		20	
2-Hexanone	94		91		70-130		3		20	
Bromochloromethane	110		111		70-130		1		20	
Tetrahydrofuran	107		93		70-130		14		20	
2,2-Dichloropropane	117		113		70-130		3		20	
1,2-Dibromoethane	99		98		70-130		1		20	
1,3-Dichloropropane	92		95		70-130		3		20	
1,1,1,2-Tetrachloroethane	96		104		70-130		8		20	
Bromobenzene	93		99		70-130		6		20	
n-Butylbenzene	91		98		70-130		7		20	
sec-Butylbenzene	91		100		70-130		9		20	
tert-Butylbenzene	92		101		70-130		9		20	
o-Chlorotoluene	95		104		70-130		9		20	
p-Chlorotoluene	95		102		70-130		7		20	
1,2-Dibromo-3-chloropropane	87		96		70-130		10		20	
Hexachlorobutadiene	103		105		70-130		2		20	
Isopropylbenzene	93		97		70-130		4		20	
p-Isopropyltoluene	96		103		70-130		7		20	
Naphthalene	66	Q	89		70-130		30	Q	20	
n-Propylbenzene	92		99		70-130		7		20	
1,2,3-Trichlorobenzene	78		106		70-130		30	Q	20	

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG552242-1 WG552242-2									
1,2,4-Trichlorobenzene	85		98		70-130		14		20
1,3,5-Trimethylbenzene	95		103		70-130		8		20
1,2,4-Trimethylbenzene	93		102		70-130		9		20
Ethyl ether	119		115		70-130		3		20
Isopropyl Ether	98		97		70-130		1		20
Ethyl-Tert-Butyl-Ether	100		97		70-130		3		20
Tertiary-Amyl Methyl Ether	102		98		70-130		4		20
1,4-Dioxane	109		110		70-130		1		20

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	109		110		70-130	
Toluene-d8	87		93		70-130	
4-Bromofluorobenzene	102		106		70-130	
Dibromofluoromethane	111		109		70-130	



SEMIVOLATILES

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-01
 Client ID: B-1 (OW)
 Sample Location: WEYMOUTH, MA
 Matrix: Water
 Analytical Method: 97,8270C-SIM
 Analytical Date: 07/30/12 12:19
 Analyst: AS

Date Collected: 07/26/12 10:00
 Date Received: 07/26/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 07/27/12 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by SIM - Westborough Lab						
Acenaphthene	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
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		30-130
2-Fluorobiphenyl	80		30-130
4-Terphenyl-d14	107		30-130

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-02
 Client ID: B-6 (OW)
 Sample Location: WEYMOUTH, MA
 Matrix: Water
 Analytical Method: 97,8270C-SIM
 Analytical Date: 07/30/12 12:48
 Analyst: AS

Date Collected: 07/26/12 11:30
 Date Received: 07/26/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 07/27/12 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by SIM - Westborough Lab						
Acenaphthene	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
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		30-130
2-Fluorobiphenyl	88		30-130
4-Terphenyl-d14	110		30-130

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-03
 Client ID: B-9 (OW)
 Sample Location: WEYMOUTH, MA
 Matrix: Water
 Analytical Method: 97,8270C-SIM
 Analytical Date: 07/30/12 13:17
 Analyst: AS

Date Collected: 07/26/12 08:15
 Date Received: 07/26/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 07/27/12 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by SIM - Westborough Lab						
Acenaphthene	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
2-Methylnaphthalene	ND		ug/l	0.20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	104		30-130
2-Fluorobiphenyl	93		30-130
4-Terphenyl-d14	129		30-130

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 07/30/12 10:52

Extraction Date: 07/27/12 22:38

Analyst: AS

Parameter	Result	Qualifier	Units	RL	MDL
MCP PAHs by SIM - Westborough Lab for sample(s): 01-03 Batch: WG551440-1					
Acenaphthene	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	--
2-Methylnaphthalene	ND		ug/l	0.20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		30-130
2-Fluorobiphenyl	72		30-130
4-Terphenyl-d14	97		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
MCP PAHs by SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG551440-2 WG551440-3									
Acenaphthene	94		86		40-140		9		20
Fluoranthene	116		116		40-140		0		20
Naphthalene	88		82		40-140		7		20
Benzo(a)anthracene	134		128		40-140		5		20
Benzo(a)pyrene	122		117		40-140		4		20
Benzo(b)fluoranthene	120		123		40-140		2		20
Benzo(k)fluoranthene	127		112		40-140		13		20
Chrysene	114		108		40-140		5		20
Acenaphthylene	97		91		40-140		6		20
Anthracene	112		108		40-140		4		20
Benzo(ghi)perylene	117		112		40-140		4		20
Fluorene	107		99		40-140		8		20
Phenanthrene	105		100		40-140		5		20
Dibenzo(a,h)anthracene	119		113		40-140		5		20
Indeno(1,2,3-cd)Pyrene	125		120		40-140		4		20
Pyrene	110		108		40-140		2		20
2-Methylnaphthalene	87		79		40-140		10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
MCP PAHs by SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG551440-2 WG551440-3									

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
Nitrobenzene-d5	103		91		30-130	
2-Fluorobiphenyl	87		78		30-130	
4-Terphenyl-d14	110		104		30-130	



PETROLEUM HYDROCARBONS

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-01
Client ID: B-1 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 100, VPH-04-1.1
Analytical Date: 07/27/12 22:02
Analyst: KL

Date Collected: 07/26/12 10:00
Date Received: 07/26/12
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	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	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	89		70-130
2,5-Dibromotoluene-FID	97		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-01
Client ID: B-1 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 98,EPH-04-1.1
Analytical Date: 07/30/12 20:48
Analyst: MW

Date Collected: 07/26/12 10:00
Date Received: 07/26/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/27/12 11:57
Cleanup Method1: EPH-04-1
Cleanup Date1: 07/30/12

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	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	100		40-140
2-Fluorobiphenyl	97		40-140
2-Bromonaphthalene	99		40-140

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-02
Client ID: B-6 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 100, VPH-04-1.1
Analytical Date: 07/27/12 22:41
Analyst: KL

Date Collected: 07/26/12 11:30
Date Received: 07/26/12
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	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	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	105		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-02
 Client ID: B-6 (OW)
 Sample Location: WEYMOUTH, MA
 Matrix: Water
 Analytical Method: 98,EPH-04-1.1
 Analytical Date: 07/30/12 21:32
 Analyst: MW

Date Collected: 07/26/12 11:30
 Date Received: 07/26/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 07/27/12 11:57
 Cleanup Method1: EPH-04-1
 Cleanup Date1: 07/30/12

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	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	107		40-140
2-Fluorobiphenyl	104		40-140
2-Bromonaphthalene	104		40-140

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-03
Client ID: B-9 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 100, VPH-04-1.1
Analytical Date: 07/27/12 23:20
Analyst: KL

Date Collected: 07/26/12 08:15
Date Received: 07/26/12
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	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	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	94		70-130
2,5-Dibromotoluene-FID	103		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**SAMPLE RESULTS**

Lab ID: L1213408-03
Client ID: B-9 (OW)
Sample Location: WEYMOUTH, MA
Matrix: Water
Analytical Method: 98,EPH-04-1.1
Analytical Date: 07/30/12 22:17
Analyst: MW

Date Collected: 07/26/12 08:15
Date Received: 07/26/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/27/12 11:57
Cleanup Method1: EPH-04-1
Cleanup Date1: 07/30/12

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	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	101		40-140
2-Fluorobiphenyl	103		40-140
2-Bromonaphthalene	105		40-140

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 100, VPH-04-1.1

Analytical Date: 07/27/12 12:04

Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03 Batch: WG551248-3					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	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
2,5-Dibromotoluene-PID	94		70-130
2,5-Dibromotoluene-FID	102		70-130

Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 98,EPH-04-1.1

Analytical Date: 07/30/12 14:48

Analyst: MW

Extraction Method: EPA 3510C

Extraction Date: 07/27/12 11:57

Cleanup Method1: EPH-04-1

Cleanup Date1: 07/30/12

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03 Batch: WG551333-1					
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	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	93		40-140
2-Fluorobiphenyl	93		40-140
2-Bromonaphthalene	94		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG551248-1 WG551248-2								
C5-C8 Aliphatics	109		107		70-130		2	25
C9-C12 Aliphatics	101		94		70-130		7	25
C9-C10 Aromatics	104		101		70-130		3	25
Benzene	104		100		70-130		4	25
Toluene	106		103		70-130		3	25
Ethylbenzene	108		106		70-130		2	25
p/m-Xylene	109		107		70-130		2	25
o-Xylene	107		104		70-130		3	25
Methyl tert butyl ether	108		101		70-130		7	25
Naphthalene	103		90		70-130		14	25
1,2,4-Trimethylbenzene	104		101		70-130		3	25
Pentane	105		103		70-130		2	25
2-Methylpentane	114		112		70-130		2	25
2,2,4-Trimethylpentane	104		101		70-130		3	25
n-Nonane	99		91		30-130		8	25
n-Decane	95		88		70-130		8	25
n-Butylcyclohexane	105		99		70-130		6	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits				

Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG551248-1 WG551248-2

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	

2,5-Dibromotoluene-PID	76		70		70-130	
2,5-Dibromotoluene-FID	80		75		70-130	

Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG551333-2 WG551333-3

C9-C18 Aliphatics	73		66		40-140	10		25
C19-C36 Aliphatics	84		78		40-140	7		25
C11-C22 Aromatics	103		89		40-140	15		25
Naphthalene	97		84		40-140	14		25
2-Methylnaphthalene	106		92		40-140	14		25
Acenaphthylene	102		90		40-140	13		25
Acenaphthene	104		91		40-140	13		25
Fluorene	106		92		40-140	14		25
Phenanthrene	105		92		40-140	13		25



Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG551333-2 WG551333-3								
Anthracene	103		90		40-140		13	25
Fluoranthene	104		91		40-140		13	25
Pyrene	104		92		40-140		12	25
Benzo(a)anthracene	97		86		40-140		12	25
Chrysene	97		85		40-140		13	25
Benzo(b)fluoranthene	98		87		40-140		12	25
Benzo(k)fluoranthene	98		83		40-140		17	25
Benzo(a)pyrene	95		83		40-140		13	25
Indeno(1,2,3-cd)Pyrene	93		81		40-140		14	25
Dibenzo(a,h)anthracene	59		51		40-140		15	25
Benzo(ghi)perylene	92		81		40-140		13	25
Nonane (C9)	61		53		30-140		14	25
Decane (C10)	71		62		40-140		14	25
Dodecane (C12)	77		70		40-140		10	25
Tetradecane (C14)	80		73		40-140		9	25
Hexadecane (C16)	84		76		40-140		10	25
Octadecane (C18)	86		79		40-140		8	25
Nonadecane (C19)	86		79		40-140		8	25
Eicosane (C20)	87		80		40-140		8	25
Docosane (C22)	87		80		40-140		8	25
Tetracosane (C24)	88		81		40-140		8	25



Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG551333-2 WG551333-3									
Hexacosane (C26)	88		81		40-140		8		25
Octacosane (C28)	86		80		40-140		7		25
Triacontane (C30)	89		82		40-140		8		25
Hexatriacontane (C36)	88		81		40-140		8		25

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
Chloro-Octadecane	65		72		40-140	
o-Terphenyl	96		85		40-140	
2-Fluorobiphenyl	94		90		40-140	
2-Bromonaphthalene	93		89		40-140	
% Naphthalene Breakthrough	0		0			
% 2-Methylnaphthalene Breakthrough	0		0			



METALS

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-01

Date Collected: 07/26/12 10:00

Client ID: B-1 (OW)

Date Received: 07/26/12

Sample Location: WEYMOUTH, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Antimony, Dissolved	0.0016		mg/l	0.0005	--	1	07/27/12 09:20	07/28/12 10:04	NA	97,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Barium, Dissolved	0.067		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Beryllium, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Cadmium, Dissolved	ND		mg/l	0.004	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Chromium, Dissolved	ND		mg/l	0.01	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Lead, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Mercury, Dissolved	ND		mg/l	0.0002	--	1	07/31/12 16:00	08/01/12 12:02	EPA 7470A	97,7470A	JH
Nickel, Dissolved	ND		mg/l	0.025	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Selenium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Silver, Dissolved	ND		mg/l	0.007	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Thallium, Dissolved	ND		mg/l	0.0005	--	1	07/27/12 09:20	07/28/12 10:04	NA	97,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM
Zinc, Dissolved	ND		mg/l	0.050	--	1	07/27/12 08:25	07/31/12 00:13	NA	97,6010B	BM



Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-02

Date Collected: 07/26/12 11:30

Client ID: B-6 (OW)

Date Received: 07/26/12

Sample Location: WEYMOUTH, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Antimony, Dissolved	0.0008		mg/l	0.0005	--	1	07/27/12 09:20	07/28/12 10:10	NA	97,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Barium, Dissolved	0.031		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Beryllium, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Cadmium, Dissolved	ND		mg/l	0.004	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Chromium, Dissolved	ND		mg/l	0.01	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Lead, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Mercury, Dissolved	ND		mg/l	0.0002	--	1	07/31/12 16:00	08/01/12 12:04	EPA 7470A	97,7470A	JH
Nickel, Dissolved	ND		mg/l	0.025	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Selenium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Silver, Dissolved	ND		mg/l	0.007	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Thallium, Dissolved	ND		mg/l	0.0005	--	1	07/27/12 09:20	07/28/12 10:10	NA	97,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM
Zinc, Dissolved	ND		mg/l	0.050	--	1	07/27/12 08:25	07/31/12 00:31	NA	97,6010B	BM



Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

SAMPLE RESULTS

Lab ID: L1213408-03

Date Collected: 07/26/12 08:15

Client ID: B-9 (OW)

Date Received: 07/26/12

Sample Location: WEYMOUTH, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Antimony, Dissolved	0.0007		mg/l	0.0005	--	1	07/27/12 08:25	07/28/12 10:12	NA	97,6020A	AK
Arsenic, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Barium, Dissolved	0.036		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Beryllium, Dissolved	ND		mg/l	0.005	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Cadmium, Dissolved	ND		mg/l	0.004	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Chromium, Dissolved	ND		mg/l	0.01	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Lead, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Mercury, Dissolved	ND		mg/l	0.0002	--	1	07/31/12 16:00	08/01/12 12:06	EPA 7470A	97,7470A	JH
Nickel, Dissolved	ND		mg/l	0.025	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Selenium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Silver, Dissolved	ND		mg/l	0.007	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Thallium, Dissolved	ND		mg/l	0.0005	--	1	07/27/12 08:25	07/28/12 10:12	NA	97,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.010	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM
Zinc, Dissolved	ND		mg/l	0.050	--	1	07/27/12 08:25	07/31/12 00:34	NA	97,6010B	BM



Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG551283-1									
Arsenic, Dissolved	ND	mg/l	0.005	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Barium, Dissolved	ND	mg/l	0.010	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Beryllium, Dissolved	ND	mg/l	0.005	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Cadmium, Dissolved	ND	mg/l	0.004	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Chromium, Dissolved	ND	mg/l	0.01	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Lead, Dissolved	ND	mg/l	0.010	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Nickel, Dissolved	ND	mg/l	0.025	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Selenium, Dissolved	ND	mg/l	0.010	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Silver, Dissolved	ND	mg/l	0.007	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Vanadium, Dissolved	ND	mg/l	0.010	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM
Zinc, Dissolved	ND	mg/l	0.050	--	1	07/27/12 09:20	07/30/12 23:55	97,6010B	BM

Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG551286-1									
Antimony, Dissolved	ND	mg/l	0.0005	--	1	07/27/12 08:25	07/28/12 09:48	97,6020A	AK
Thallium, Dissolved	ND	mg/l	0.0005	--	1	07/27/12 08:25	07/28/12 09:48	97,6020A	AK

Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-03 Batch: WG552018-1									
Mercury, Dissolved	ND	mg/l	0.0002	--	1	07/31/12 16:00	08/01/12 11:12	97,7470A	JH

Project Name: PARCEL R-1 SOUTHFIELD

Lab Number: L1213408

Project Number: 5421.9.00

Report Date: 08/06/12

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

Parameter	LCS		LCSD		%Recovery		RPD		RPD Limits	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual			
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG551283-2 WG551283-3										
Arsenic, Dissolved	107		108		80-120		1		20	
Barium, Dissolved	96		98		80-120		2		20	
Beryllium, Dissolved	96		97		80-120		1		20	
Cadmium, Dissolved	103		106		80-120		3		20	
Chromium, Dissolved	95		100		80-120		5		20	
Lead, Dissolved	100		102		80-120		2		20	
Nickel, Dissolved	97		99		80-120		2		20	
Selenium, Dissolved	104		107		80-120		3		20	
Silver, Dissolved	100		102		80-120		2		20	
Vanadium, Dissolved	98		100		80-120		2		20	
Zinc, Dissolved	97		100		80-120		3		20	
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG551286-2 WG551286-3										
Antimony, Dissolved	92		88		80-120		4		20	
Thallium, Dissolved	83		87		80-120		5		20	
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG552018-2 WG552018-3										
Mercury, Dissolved	103		101		80-120		2		20	



Project Name: PARCEL R-1 SOUTHFIELD**Lab Number:** L1213408**Project Number:** 5421.9.00**Report Date:** 08/06/12**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(*)
L1213408-01A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-01B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-01C	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-01D	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-01E	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-01F	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-01G	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-01H	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-01I	Plastic 1000ml unpreserved	A	7	3	Y	Absent	-
L1213408-01X	Plastic 1000ml HNO3 preserved sp	A	<2	3	Y	Absent	MCP-CD-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-SB-6020S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-TL-6020S-10(180),MCP-BA-6010S-10(180),MCP-BE-6010S-10(180),MCP-PB-6010S-10(180),MCP-NI-6010S-10(180),MCP-SE-6010S-10(180),MCP-V-6010S-10(180)
L1213408-02A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-02B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-02C	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-02D	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-02E	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-02F	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-02G	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-02H	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-02I	Plastic 1000ml unpreserved	A	7	3	Y	Absent	-

*Values in parentheses indicate holding time in days



Project Name: PARCEL R-1 SOUTHFIELD

Project Number: 5421.9.00

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1213408-02X	Plastic 1000ml HNO3 preserved sp	A	<2	3	Y	Absent	MCP-CD-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-SB-6020S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-TL-6020S-10(180),MCP-BA-6010S-10(180),MCP-BE-6010S-10(180),MCP-PB-6010S-10(180),MCP-NI-6010S-10(180),MCP-SE-6010S-10(180),MCP-V-6010S-10(180)
L1213408-03A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-03B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1213408-03C	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-03D	Vial HCl preserved	A	N/A	3	Y	Absent	VPH-10(14)
L1213408-03E	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-03F	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	EPH-10(14)
L1213408-03G	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-03H	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-PAHSIM-10(7)
L1213408-03I	Plastic 1000ml unpreserved	A	7	3	Y	Absent	-
L1213408-03X	Plastic 1000ml HNO3 preserved sp	A	<2	3	Y	Absent	MCP-CD-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-SB-6020S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-TL-6020S-10(180),MCP-BA-6010S-10(180),MCP-BE-6010S-10(180),MCP-PB-6010S-10(180),MCP-NI-6010S-10(180),MCP-SE-6010S-10(180),MCP-V-6010S-10(180)

*Values in parentheses indicate holding time in days

Project Name: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

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.
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 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.

Report Format: Data Usability Report



Project Name: PARCEL R-1 SOUTHFIELD
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Data Qualifiers

- 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: PARCEL R-1 SOUTHFIELD
Project Number: 5421.9.00

Lab Number: L1213408
Report Date: 08/06/12

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.
- 100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

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 August 3, 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, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 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; ColilertQT 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 6010B, 6010C, 6020, 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, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 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, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 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, 2540G, 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, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 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, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 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, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, 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, 245.2, 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, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-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, 7471A, 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, 245.2, 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, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO₂-B, 4500NO₃-F, 4500S-D, 4500SO₃-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH₃-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 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 Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **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, 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, 4500Cl-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 5035, 3540C, 3546, 3550, 3580, 3630C, 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. 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 Methylnaphthalenes, Total Dimethylnaphthalenes, 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, SO₄ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1213408

Instrument ID: Jack.i

Calibration Date: 01-AUG-2012 Time: 06:55

Lab File ID: 0801A02

Init. Calib. Date(s): 26-JUN-2 26-JUN-2

Sample No: 8260 CCAL

Init. Calib. Times : 13:48 17:04

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
dichlorodifluoromethane	.75739	.88809	.1	-17	20
chloromethane	.86761	.88213	.1	-2	20
vinyl chloride	.79573	.8881	.1	-12	20
bromomethane	.33464	.40099	.1	-20	20
chloroethane	.44122	.49725	.1	-13	20
trichlorofluoromethane	1.0609	1.3622	.1	-28	20
ethyl ether	.28567	.33914	.05	-19	20
1,1,-dichloroethene	.58505	.70455	.1	-20	20
carbon disulfide	1.3832	1.5427	.1	-12	20
freon-113	.63657	.75676	.1	-19	20
iodomethane	100	87.267	.05	13	20
acrolin	.05225	.05186	.05	1	20
methylene chloride	.71143	.73647	.1	-4	20
acetone	100	99	.1	1	20
trans-1,2-dichloroethene	.69486	.75021	.1	-8	20
methyl acetate	.30836	.31253	.1	-1	20
methyl tert butyl ether	1.4464	1.5165	.1	-5	20
Diisopropyl Ether	2.1278	2.0848	.01	2	20
tert butyl alcohol	500	509	.05	-2	20
1,1-dichloroethane	1.3253	1.3177	.2	1	20
Halothane	.42164	.43817	.05	-4	20
Ethyl-Tert-Butyl-Ether	1.8257	1.8340	.05	0	20
vinyl acetate	1.1705	1.1457	.05	2	20
acrylonitrile	.15131	.15918	.05	-5	20
cis-1,2-dichloroethene	.75326	.82628	.1	-10	20
2,2-dichloropropane	1.0374	1.2165	.05	-17	20
bromochloromethane	.33804	.37325	.05	-10	20
chloroform	1.2403	1.4020	.2	-13	20
carbontetrachloride	.93192	1.0857	.1	-17	20
ethyl acetate	.3898	.38952	.05	0	20
tetrahydrofuran	.15078	.1616	.05	-7	20
1,1,1-trichloroethane	1.1362	1.2759	.1	-12	20
1,1-dichloropropene	1.0141	1.0291	.05	-1	20
2-butanone	.17705	.19499	.1	-10	20
benzene	2.7385	2.6712	.5	2	20
Tertiary-Amyl Methyl Ether	1.3612	1.3914	.05	-2	20
1,2-dichloroethane	.83553	.99593	.1	-19	20
trichloroethene	.70657	.76369	.2	-8	20

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FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1213408

Instrument ID: Jack.i Calibration Date: 01-AUG-2012 Time: 06:55

Lab File ID: 0801A02 Init. Calib. Date(s): 26-JUN-2 26-JUN-2

Sample No: 8260 CCAL Init. Calib. Times : 13:48 17:04

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
dibromomethane	.35147	.37461	.05	-7	20
1,2-dichloropropane	.66735	.67059	.1	0	20
bromodichloromethane	.78384	.83979	.2	-7	20
1,4-dioxane	.00245	.00268	.05	-9	20
cis-1,3-dichloropropene	.90934	.92979	.2	-2	20
toluene	2.2617	2.0772	.4	8	20
2-chloroethylvinyl ether	.28376	.25466	.05	10	20
tetrachloroethene	.94414	.85301	.2	10	20
4-methyl-2-pentanone	.13344	.13179	.1	1	20
trans-1,3-dichloropropene	.93325	.84219	.1	10	20
1,1,2-trichloroethane	.45155	.41711	.1	8	20
chlorodibromomethane	.61465	.59298	.1	4	20
1,3-dichloropropane	1.0082	.93075	.05	8	20
1,2-dibromoethane	.55237	.5493	.1	1	20
2-hexanone	.29916	.28169	.1	6	20
chlorobenzene	2.4092	2.2533	.5	6	20
ethyl benzene	4.1342	3.7938	.1	8	20
1,1,1,2-tetrachloroethane	.7563	.72745	.05	4	20
p/m xylene	1.6082	1.5061	.1	6	20
o xylene	1.5157	1.4217	.3	6	20
bromoform	.58985	.49971	.1	15	20
styrene	2.4520	2.3805	.3	3	20
isopropylbenzene	3.7873	3.5327	.1	7	20
bromobenzene	1.9275	1.7894	.05	7	20
n-propylbenzene	7.9691	7.3056	.05	8	20
1,1,2,2,-tetrachloroethane	1.1171	1.0640	.3	5	20
4-ethyltoluene	6.6435	6.1771	.05	7	20
2-chlorotoluene	5.6885	5.4041	.05	5	20
1,2,3-trichloropropane	.93923	.90069	.05	4	20
1,3,5-trimethylbenzene	5.8869	5.5908	.05	5	20
trans-1,4-dichloro-2-butene	.36099	.21812	.05	40	20
4-chlorotoluene	5.3269	5.0421	.05	5	20
tert-butylbenzene	4.7559	4.3732	.05	8	20
1,2,4-trimethylbenzene	6.0097	5.5988	.05	7	20
sec-butylbenzene	6.3129	5.7355	.01	9	20
p-isopropyltoluene	5.3286	5.1215	.05	4	20
1,3-dichlorobenzene	3.4084	3.1850	.6	7	20
1,4-dichlorobenzene	3.3982	3.2138	.5	5	20

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FORM VII MCP-8260-10

TABLE 3
Laboratory Analytical Results - Groundwater

TABLE 3

Parcel R1, Southfield
Weymouth, Massachusetts
Project No. 5421

LOCATION	RCGW-2 Reporting Thresholds	B-1 (OW)	B-6 (OW)	B-9 (OW)
SAMPLING DATE		7/26/2012	7/26/2012	7/26/2012
LAB SAMPLE ID		L1213408-01	L1213408-02	L1213408-03
MCP Dissolved Metals (mg/l)				
Dissolved Antimony	8	0.0016	0.0008	0.0007
Dissolved Arsenic	0.9	ND(0.0025)	ND(0.0025)	ND(0.0025)
Dissolved Barium	50	0.067	0.031	0.036
Dissolved Beryllium	0.2	ND(0.0025)	ND(0.0025)	ND(0.0025)
Dissolved Cadmium	0.004	ND(0.002)	ND(0.002)	ND(0.002)
Dissolved Chromium	0.3	ND(0.005)	ND(0.005)	ND(0.005)
Dissolved Lead	0.01	ND(0.005)	ND(0.005)	ND(0.005)
Dissolved Mercury	0.02	ND(0.0001)	ND(0.0001)	ND(0.0001)
Dissolved Nickel	0.2	ND(0.0125)	ND(0.0125)	ND(0.0125)
Dissolved Selenium	0.1	ND(0.005)	ND(0.005)	ND(0.005)
Dissolved Silver	0.007	ND(0.0035)	ND(0.0035)	ND(0.0035)
Dissolved Thallium	3	ND(0.00025)	ND(0.00025)	ND(0.00025)
Dissolved Vanadium	4	ND(0.005)	ND(0.005)	ND(0.005)
Dissolved Zinc	0.9	ND(0.025)	ND(0.025)	ND(0.025)
Volatile Petroleum Hydrocarbons (mg/l)				
C9-C10 Aromatics	7	ND(0.025)	ND(0.025)	ND(0.025)
C5-C8 Aliphatics	3	ND(0.025)	ND(0.025)	ND(0.025)
C9-C12 Aliphatics	5	ND(0.025)	ND(0.025)	ND(0.025)
Extractable Petroleum Hydrocarbons (mg/l)				
C9-C18 Aliphatics	5	ND(0.05)	ND(0.05)	ND(0.05)
C19-C36 Aliphatics	50	ND(0.05)	ND(0.05)	ND(0.05)
C11-C22 Aromatics	5	ND(0.05)	ND(0.05)	ND(0.05)
MCP PAHs by SIM (mg/l)				
Acenaphthene	6	ND(0.0001)	ND(0.0001)	ND(0.0001)
Fluoranthene	0.2	ND(0.0001)	ND(0.0001)	ND(0.0001)
Naphthalene	1	ND(0.0001)	ND(0.0001)	ND(0.0001)
Benzo(a)anthracene	1	ND(0.0001)	ND(0.0001)	ND(0.0001)
Benzo(a)pyrene	0.5	ND(0.0001)	ND(0.0001)	ND(0.0001)
Benzo(b)fluoranthene	0.4	ND(0.0001)	ND(0.0001)	ND(0.0001)
Benzo(k)fluoranthene	0.1	ND(0.0001)	ND(0.0001)	ND(0.0001)
Chrysene	0.07	ND(0.0001)	ND(0.0001)	ND(0.0001)
Acenaphthylene	0.04	ND(0.0001)	ND(0.0001)	ND(0.0001)
Anthracene	0.03	ND(0.0001)	ND(0.0001)	ND(0.0001)
Benzo(ghi)perylene	0.02	ND(0.0001)	ND(0.0001)	ND(0.0001)
Fluorene	0.04	ND(0.0001)	ND(0.0001)	ND(0.0001)
Phenanthrene	10	ND(0.0001)	ND(0.0001)	ND(0.0001)
Dibenzo(a,h)anthracene	0.04	ND(0.0001)	ND(0.0001)	ND(0.0001)
Indeno(1,2,3-cd)Pyrene	0.1	ND(0.0001)	ND(0.0001)	ND(0.0001)
Pyrene	0.02	ND(0.0001)	ND(0.0001)	ND(0.0001)
2-Methylnaphthalene	2	ND(0.0001)	ND(0.0001)	ND(0.0001)
SUM		-	-	-
MCP Volatile Organics (mg/l) *				
Methylene chloride	10	ND(0.001)	ND(0.001)	ND(0.001)
Tetrachloroethene	0.05	ND(0.0005)	ND(0.0005)	ND(0.0005)
Benzene	2	ND(0.00025)	ND(0.00025)	ND(0.00025)
Toluene	40	ND(0.0005)	ND(0.0005)	ND(0.0005)
Ethylbenzene	5	ND(0.0005)	ND(0.0005)	ND(0.0005)
Trichloroethene	0.03	ND(0.0005)	ND(0.0005)	ND(0.0005)
Methyl tert butyl ether	5	ND(0.001)	ND(0.001)	ND(0.001)
p/m-Xylene	5	ND(0.001)	ND(0.001)	ND(0.001)
o-Xylene	5	ND(0.0005)	ND(0.0005)	ND(0.0005)
Naphthalene	1	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	10	ND(0.001)	ND(0.001)	ND(0.001)
Ethyl ether	10	ND(0.001)	ND(0.001)	ND(0.001)
Isopropyl Ether	10	ND(0.001)	ND(0.001)	ND(0.001)
Ethyl-Tert-Butyl-Ether		ND(0.001)	ND(0.001)	ND(0.001)
Tertiary-Amyl Methyl Ether		ND(0.001)	ND(0.001)	ND(0.001)
1,4-Dioxane	6	ND(0.125)	ND(0.125)	ND(0.125)
SUM		-	-	-

* Partial List, all VOCs not listed were ND

Appendix D
Federal Services Supporting Documentation



U.S. Fish & Wildlife Service

IPaC - Information, Planning, and Conservation System

Environmental Conservation Online System

[IPaC Home Page](#)

Initial Project Scoping

[Project Builder](#)

[FAQs](#)

[Step 1](#)

Location

[Step 2](#)

Activities

Step 3

Trust resources list

Step 4

Conservation measures

Natural Resources of Concern

An online Endangered Species Act species list **IS** available on this page for your project area, represented by the office(s) listed below.

[Save or Print the Preliminary Species list](#)

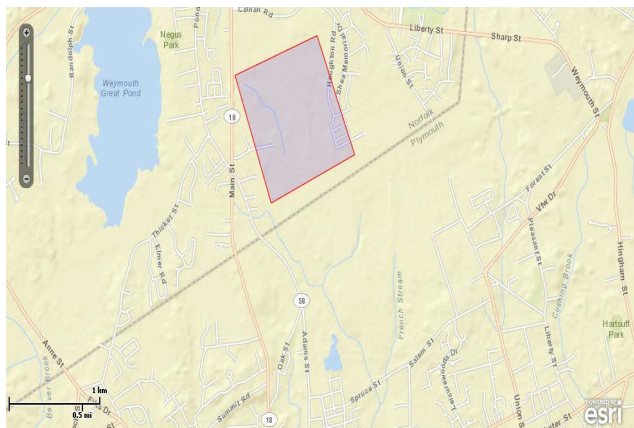
[Request an Official Species list](#)

The Endangered Species Act species list below is for planning purposes only -- it is not an official species list.

To request an official species list, click the **Request an Official Species list** link to the right and follow the instructions.

NEW ENGLAND ECOLOGICAL SERVICES FIELD OFFICE
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
<http://www.fws.gov/newengland>

Project Location Map:



Note: The map reflects the map extent and map layers selected on Step 1 Location page. To change what appears on this map, return to the Location page and adjust the map extent or map layers.

Project Counties:

Norfolk, MA

Project type: Development

Endangered Species Act Species List ([USFWS Endangered Species Program](#)).

There are no listed species found within the vicinity of your project.

[Don't see a species you expect to see?](#)

FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).

There are no National Wildlife Refuges found within the vicinity of your project.

FWS Migratory Birds ([USFWS Migratory Bird Program](#)).

Most species of birds, including eagles and other raptors, are protected under the Migratory Bird Treaty Act (16 U.S.C. 703). Bald eagles and golden eagles receive additional protection under the [Bald and Golden](#)

[Eagle Protection Act](#) (16 U.S.C. 668). The Service's [Birds of Conservation Concern \(2008\)](#) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

NWI Wetlands ([USFWS National Wetlands Inventory](#)).

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

The following wetlands intersect your project area:

Wetland Types	NWI Classification Code	Approximate Acres
Freshwater Forested/Shrub Wetland	PFO1E	4.708822
Riverine	R2UBHx	2.968209
Freshwater Forested/Shrub Wetland	PFO1E	2.029511
Freshwater Emergent Wetland	PEM1E	0.773344
Freshwater Forested/Shrub Wetland	PSS1Ed	0.807929
Freshwater Forested/Shrub Wetland	PSS1Ed	4.365428
Freshwater Forested/Shrub Wetland	PSS1/EM1E	3.048767
Freshwater Forested/Shrub Wetland	PSS1Ed	6.186459
Freshwater Forested/Shrub Wetland	PFO1E	0.968938
Freshwater Forested/Shrub Wetland	PFO1E	1.849381
Freshwater Emergent Wetland	PEM1E	2.596135
Freshwater Emergent Wetland	PEM1E	0.106313
Freshwater Forested/Shrub Wetland	PFO1E	1.040095
Freshwater Forested/Shrub Wetland	PSS1E	0.548379
Freshwater Forested/Shrub Wetland	PFO1Ed	2.284565
Freshwater Emergent Wetland	PEM1E	0.124533
Freshwater Emergent Wetland	PEM1E	0.115737
Freshwater Forested/Shrub Wetland	PSS1Ed	6.336257
Freshwater Forested/Shrub Wetland	PFO1E	34.733052
Freshwater Emergent Wetland	PEM1E	0.095076

Last updated: July 8, 2013

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Massachusetts Cultural Resource Information System

MACRIS

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Results

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Below are the results of your search, using the following search criteria:

Town(s): Weymouth
Place: South Weymouth
Street No: 1
Street Name: Parkview St

For more information about this page and how to use it, [click here](#)

No Results Found.

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