



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAY 12 2014

William Woodcock
Owner
Needham Oil Co., dba Woodcock Realty Inc.
P.O. Box 920733
Needham, MA 02492

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Needham Oil Company site at 355-355R Chestnut Street, Needham, MA
02492 Norfolk County; Authorization # MAG910616

Dear Mr. Woodcock:

Based on the review of a Notice of Intent (NOI) submitted by the LSP for the site Mr. Mark Germano on behalf of Needham Oil Company, dba Woodcock Realty Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the legal 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 vinyl chloride, parameter that you have marked "Believed Present". The checklist also includes, bis (2-ethylhexyl) phthalate, butyl benzyl phthalate and pentachlorophenol 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, the laboratory records included with the Notice of Intent (NOI) indicate pollutant content in the intake water, therefore, the volatile organics, tetrachloroethene, trichloroethene, cis-1, 2 – dichloroethene are required to be monitored.

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

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on May 1, 2020. 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
Richard P. Merson, Needham DPW
Mark M. Germano, LSP

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

NPDES Authorization Number:		MAG910616
Authorization Issued:	May 2, 2014	
Facility/Site Name:	Needham Oil Company	
Facility/Site Address:	355-355R Chestnut Street, Needham, MA 02492	
	Email address of owner: w.woodcock@comcast.net	
Legal Name of Operator:	William Woodcock	
Operator contact name, title, and Address:	LSP at the site is :Mark Germano, Licensed Site Professional	
	Email: Not provided: Phone No. 339 7933528	
Estimated date of The Project Completion:	May 1, 2014	
Category and Sub-Category:	Category IV- Miscellaneous Related Discharges. Sub-category D. Long Term Remediation of Contaminated Sumps and Dikes	
RGP Termination Date:	September 9, 2015	
Receiving Water:	Unnamed Brook to Town Pond to Rosemary Lake	

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

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

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

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

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)</u> 11/12		<u>Minimum level=ML</u>
		<u>Freshwater</u>	<u>Saltwater</u>	
	39. Antimony	5.6/ML 10		
	40. Arsenic **	10/ML 20	36/ML 20	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰= 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) 11/12		Minimum level=ML	
		Freshwater	Saltwater		
	41. Cadmium **	0.2/ML10	8.9/ML 10		
	42. Chromium III (trivalent) **	48.8/ML15	100/ML 15		
	43. Chromium VI (hexavalent) **	11.4/ML10	50.3/ML 10		
	44. Copper **	5.2/ML15	3.7/ML 15		
	45. Lead **	1.3/ML20	8.5/ML 20		
	46. Mercury **	0.9/ML0.2	1.1/ML 0.2		
	47. Nickel **	29/ML20	8.2/ML 20		
	48. Selenium **	5/ML20	71/ML 20		
	49. Silver	1.2/ML10	2.2/ML 10		
	50. Zinc **	66.6/ML15	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.

⁹Although 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

April 23, 2014

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
Needham Oil Company
355 Chestnut Street
Needham, Massachusetts**

To whom it may concern:

On behalf Needham Oil Company, Inc., d.b.a. Woodcock Realty, Inc. (WRI) Mark A. Germano, LSP 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) for long term management of contaminated sump water. The completed NOI form is provided in Appendix A.

Site Information

The RGP is for the discharge of water from a basement sump system, which has become contaminated with volatile organic compounds to a municipal storm water catch basin. The basement sump is located in a disposal site (RTN 3-31855) where Immediate Response Actions have been implemented to address an Imminent Hazard (IH) condition inside the bank building at 355 Chestnut St Needham, MA. The IH condition was most likely caused by a historical release of chlorinated solvents from the dry cleaning operation located in the abutting building at 357 Chestnut Street. A dry cleaner has operated at the current location since the mid 1960's. The property has been owned and operated by the Needham Oil Company since 1961. The occupants of these buildings lease the property from WRI. Currently Needham Oil's operating facility is located in the rear of the property behind the affected buildings. Please refer to Figure 1 Site Plan for a locus map and an overview of the immediate commercial area surrounding the Site. The work area is bounded to the north by Marsh Road, and to the east by Chestnut Street and to the south by a Roche Bros. Supermarket and west by MBTA Railroad tracks as depicted on Figure 2 Site Plan. The proposed discharge location is an unnamed brook across the railroad tracks behind Roche Bros. that ultimately discharges to Rosemary Lake as depicted in Figure 3.

Work Summary/Monitoring Program

The basement of the Bank of America building at 355 Chestnut Street has been utilizing a submersible (sump) pump/perimeter drain system to control surface water and prevent groundwater infiltration to the basement. Groundwater is controlled by two sumps connected to a perimeter drain with a pump in the sump in the rear of the building. Recent sampling of the sump water determined that the groundwater infiltrating the basement had detectable concentrations of contamination. Therefore, Mark A. Germano, LSP (MAG) determined that by modifying the sump system to a Pump & Treat (P&T) system that the water in the basement can continue to be controlled via the existing sumps and the contaminants can be treated prior to discharge to the storm drain. The water discharged from the basement sump will be treated with 2-200 pound canisters of granular activated carbon. The treated water will be pumped via a subsurface private drain line to an on-site oil water separator where it mixes with surface water before being manually pumped to the Town drainage system in Marsh Road. The manual pumping of the OWS is part of the Spill Protection for the on-site fuel oil operation and petroleum storage (See Figure 2).

Monthly monitoring activities will be conducted by MAG to ensure that the P&T System is maintaining compliance with the RGP. Based on previous sampling data, the chemicals of concern are volatile organic compounds (VOCs). Upon approval of the RGP, MAG will collect influent and effluent samples from the system on the first, third, and sixth day of discharge (if feasible with the intermittent discharge of the system); weekly for the first month; and then monthly. Samples will be analyzed for all compounds detected in the pre-remediation RGP parameter analysis and samples collected within the first week will be submitted for 72 hour analysis. The P&T will be immediately shutdown upon any indication of malfunction or violation of effluent limitations. In accordance with the RGP, a summary of the results will be submitted to the United State Environmental Protection Agency (EPA) Northeast (NE) office and the DEP Northeast Regional Office (NERO) if a violation of the effluent limits occurs.

Monthly samples will be collected at both the influent and effluent stages of the system to ensure the target contaminants are not breaking through the treatment process. Samples will be analyzed for all compounds detected in the pre-remediation RGP parameter analysis, including VOCs via EPA 624 Method. The system will be immediately shut down upon any indication of malfunction or violation of effluent limitations. In accordance with the RGP, a summary of the results will be submitted to the EPA-NE office and the DEP NERO if a violation of the effluent limits occurs, in addition to the RMRs that are submitted. A water totalizing meter will be utilized to obtain the total monthly volume of groundwater discharged.

MAG reviewed online electronic data viewers and databases from the Massachusetts Geographical Historical 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.

Mark A. Germano, LSP is the environmental consultant for the Site and will be the contractor that will operate the P&T system on behalf of Woodcock Realty Inc. d.b.a. Needham Oil Company the facility/site owner. The following is the contact information for the owner and operator:

Mark A. Germano, LSP
15 Pinehurst Road
Marshfield, MA 02050
Phone No. 339-793-3528

Mr. William Woodcock
Needham Oil Company, Inc. d.b.a
Woodcock Realty Inc.
P.O. Box 920733
Needham, MA 02492
Phone No.: 617-692-0102

In accordance with the RGP-NOI, the State Application Form BRPWM 12 and associated payment are **not applicable** to this project because the Site is currently a MADEP MCP Site pursuant to 310 CMR 40.0000.

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP. On behalf of MAG, we are requesting coverage under the NPDES RGP for the long term management of contaminated sump water at 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, MAG 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 me at 339-793-3528 or at mgermano916@gmail.com If have any questions or if you require additional information.

Sincerely,
Mark A. Germano, LSP



Mark Germano, LSP
Owner

Attachments:

1. Remedial General Permit - Notice of Intent
2. Site Locus
3. Process Flow Diagram
4. Discharge Maps
5. Laboratory Analytical Reports

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/Formely Contaminated Sites ____ C. Hydrostatic Testing of Pipelines and Tanks ____ D. Long-Term Remediation of Contaminated Sumps and Dikes ____ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ____
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

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

3. Contaminant information.

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

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

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

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

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

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

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

⁴The sum of individual phthalate compounds.

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

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

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

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

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

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

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

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

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

Design flow rate of treatment system _____ gpm

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

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

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

6. ESA and NHPA Eligibility.

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

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

7. Supplemental information.

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

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

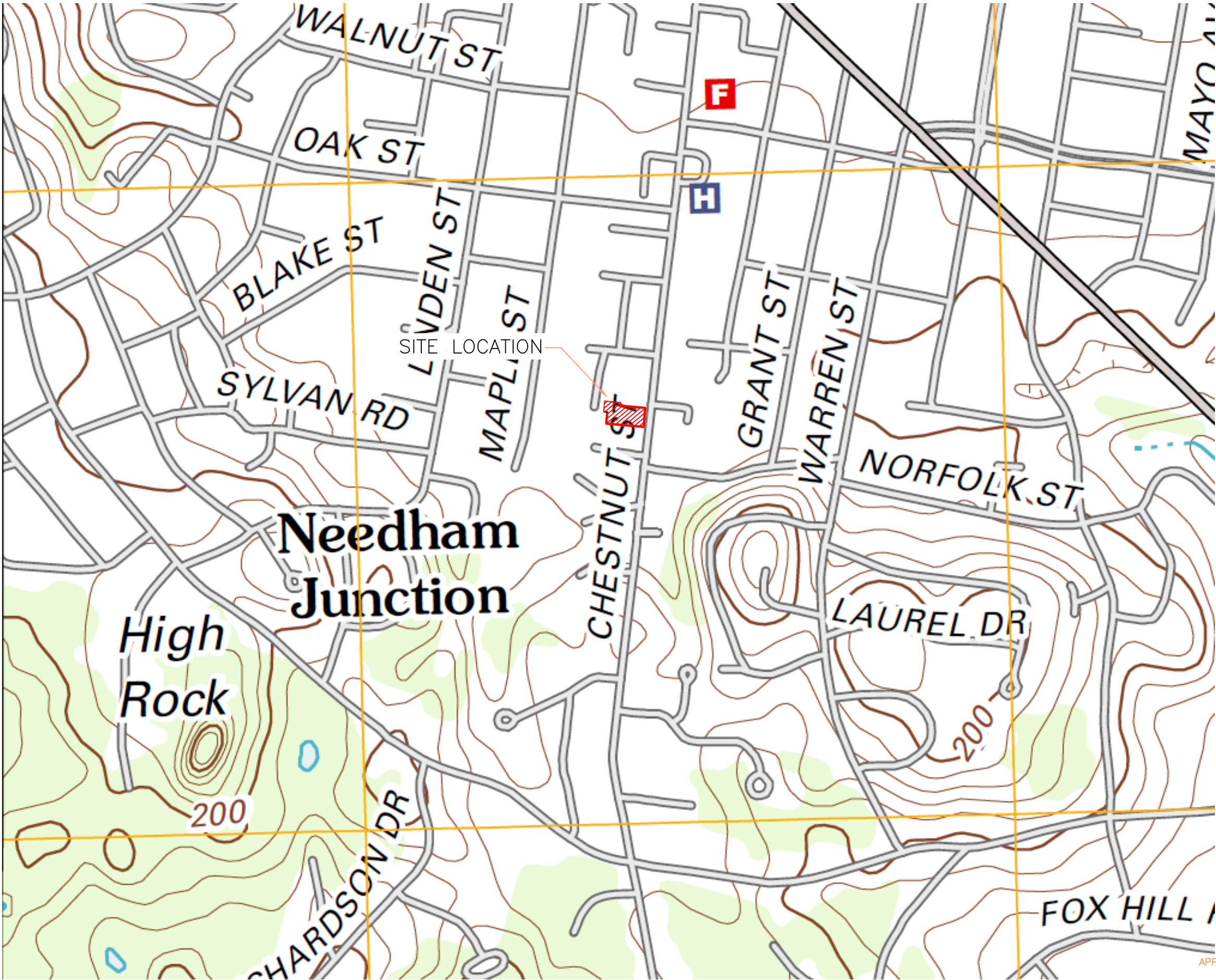
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

Facility/Site Name: Needham Oil Company dba Woodcock Realty Inc.

Operator signature: 

Printed Name & Title: William Woodcock, Owner

Date: April 16, 2014



PREPARED FOR:

WILLIAM WOODCOCK
WOODCOCK REALTY INC.
P.O. BOX 920733
NEEDHAM, MA 02492

PREPARED BY:

KURZ ENVIRONMENTAL
P.O. BOX 358
SHERBORN, MA 01770

ENGINEER STAMP/SIGNATURE

THIS DOCUMENT IS THE DESIGN PROPERTY
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FOR THE EXCLUSIVE USE BY THE TITLE
CLIENT. ANY DUPLICATION OR USE WITHOUT
EXPRESS WRITTEN CONSENT OF THE
CREATOR IS STRICTLY PROHIBITED.

SUBMITTALS			
NO.	DATE	DESCRIPTION	BY
A	01/02/14	FOR REVIEW	LMK

JOB NO:

355

SITE INFO:

RTN: 3-31855

355 - 357 CHESTNUT STREET
NEEDHAM, MA 02492
NORFOLK COUNTY

SHEET TITLE:

USGS TOPOGRAPHIC
MAP

DRAWN BY: LMK	SHEET NO: FIGURE 1
CHECKED BY:	
DATE: 01/02/14	

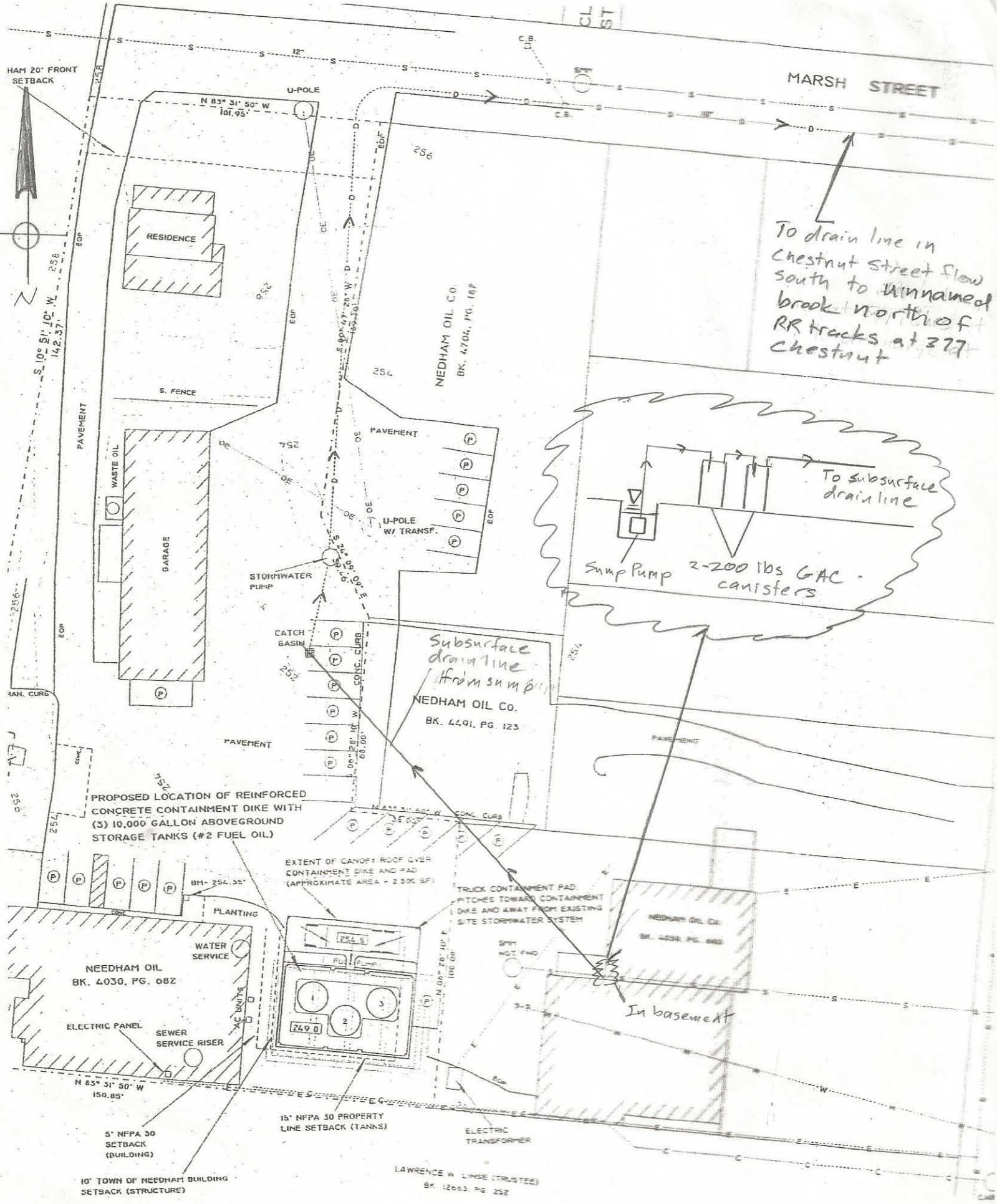
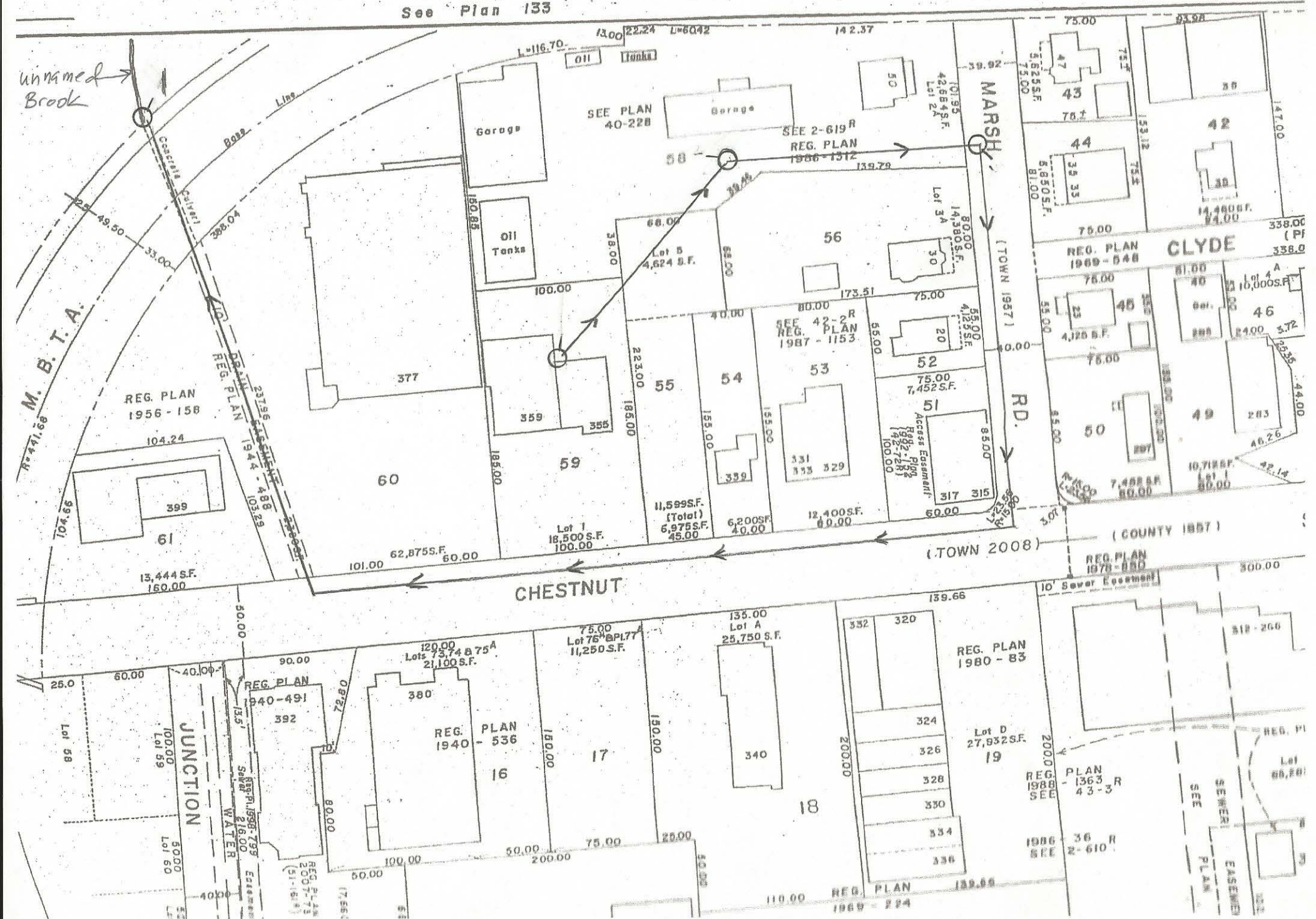


Figure 2 - Flow Schematic

Fig 3 - Discharge Pathway (Source: Assessor's Plan No. 46)

See Plan 133



MassDEP - Bureau of Waste Site Cleanup

Site Information: MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

NEEDHAM OIL COMPANY
355 CHESTNUT STREET NEEDHAM, MA
3-000031855

NAD83 UTM Meters:
4682662mN, 315415mE (Zone: 19)
April 18, 2014

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<http://www.mass.gov/mgis/>



MassDEP

Commonwealth of Massachusetts
Department of Environmental Protection

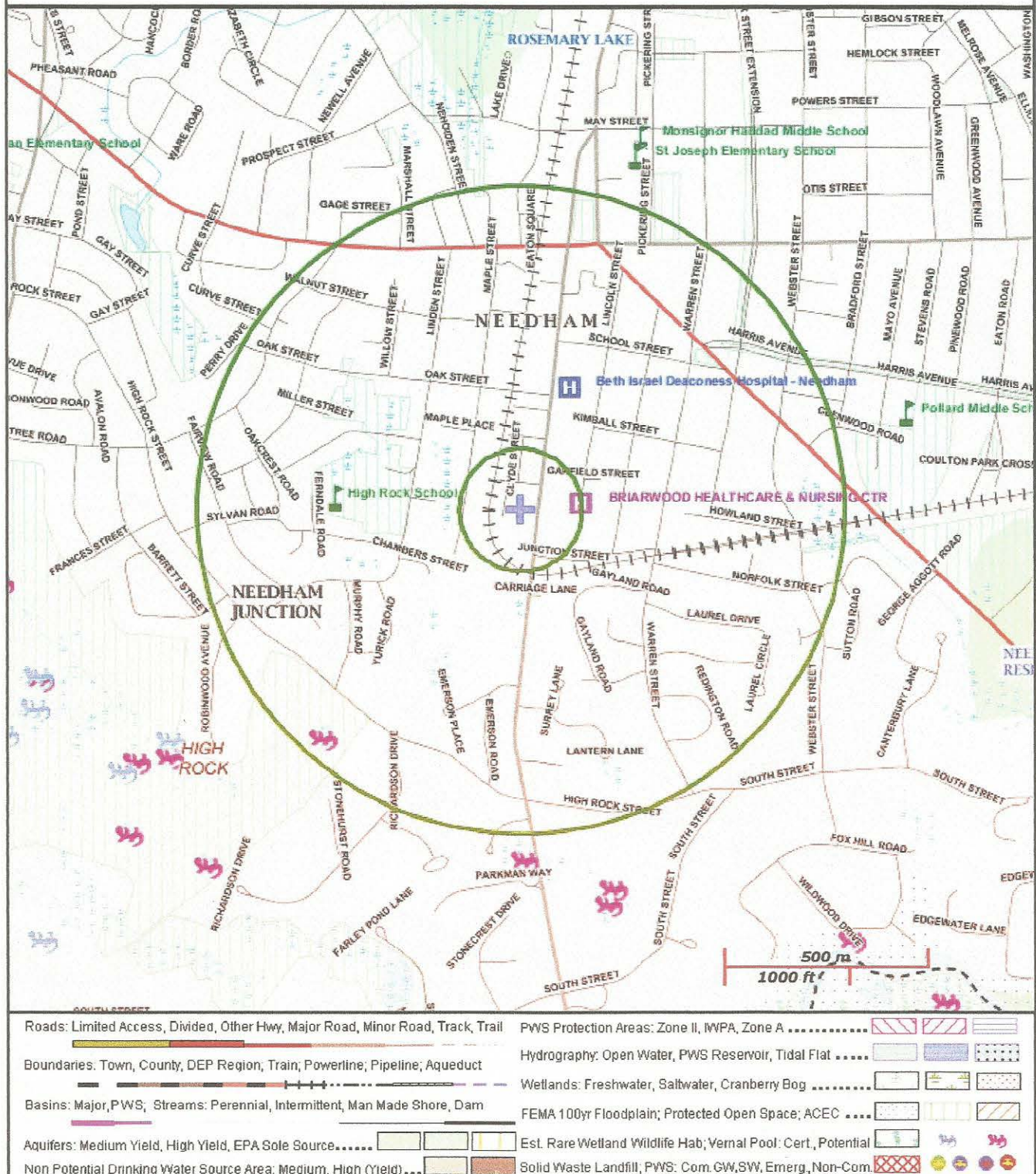


Fig 4.

ANALYTICAL REPORT



Thursday, April 10, 2014

Mark Germano
Germano
15 Pinehurst Rd.
Marshfield, MA 02050

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

TEL: (339) 793-3528

FAX:

Project: Needham Oil
Location:

Order No.: 1404001

Dear Mark Germano:

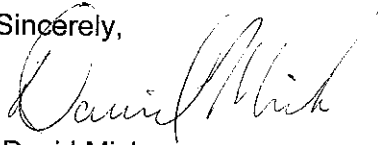
GeoLabs, Inc. received 1 sample(s) on 4/1/2014 for the analyses presented in the following report.

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)

Date: 10-Apr-14

CLIENT: Germano
Project: Needham Oil
Lab Order: 1404001

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

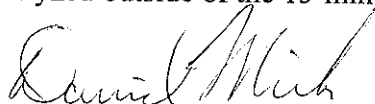
The project was accompanied by satisfactory Chain of Custody documentation.

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. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

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

SIGNATURE:



LAB DIRECTOR

PRINTED NAME: David Mick

DATE: 04/10/14

GeoLabs, Inc.

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

ANALYTICAL REPORT**Reported Date:** 10-Apr-14

CLIENT: Germano
Lab Order: 1404001
Project: Needham Oil
Lab ID: 1404001-001

Client Sample ID: Sump
Collection Date: 4/1/2014 10:15:00 AM
Date Received: 4/1/2014
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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TOTAL SUSPENDED SOLIDS - SM2540D

Analyst: CR

Prep Method:

Prep Date:

Total Suspended Solids	ND	4.00		mg/L	1	4/2/2014
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POLYCHLORINATED BIPHENYLS - SW8082A

Analyst: KG

Prep Method: (SW3510B)

Prep Date: 4/7/2014 9:34:39 AM

Aroclor 1016	ND	0.269		µg/L	1	4/7/2014
Aroclor 1221	ND	0.269		µg/L	1	4/7/2014
Aroclor 1232	ND	0.269		µg/L	1	4/7/2014
Aroclor 1242	ND	0.269		µg/L	1	4/7/2014
Aroclor 1248	ND	0.269		µg/L	1	4/7/2014
Aroclor 1254	ND	0.269		µg/L	1	4/7/2014
Aroclor 1260	ND	0.269		µg/L	1	4/7/2014
Surr: Decachlorobiphenyl Sig 1	79.4	30-150		%REC	1	4/7/2014
Surr: Decachlorobiphenyl Sig 2	81.5	30-150		%REC	1	4/7/2014
Surr: Tetrachloro-m-Xylene Sig 1	81.8	30-150		%REC	1	4/7/2014
Surr: Tetrachloro-m-Xylene Sig 2	64.2	30-150		%REC	1	4/7/2014

TOTAL PETROLEUM HYDROCARBONS - 8100M

Analyst: KG

Prep Method: (8100M)

Prep Date: 4/3/2014 9:12:31 AM

Total Petroleum Hydrocarbons	ND	0.156		mg/L	1	4/3/2014
Surr: o-Terphenyl	77.8	40-140		%REC	1	4/3/2014

TOTAL METALS BY ICP - SW6010C

Analyst: ZYZ

Prep Method: (SW3010A)

Prep Date: 4/4/2014 12:03:14 PM

Antimony	ND	0.0100		mg/L	1	4/4/2014
Cadmium	ND	0.0100		mg/L	1	4/4/2014
Chromium	ND	0.0100		mg/L	1	4/4/2014
Copper	ND	0.100		mg/L	1	4/4/2014
Iron	1.42	0.0100		mg/L	1	4/4/2014
Lead	ND	0.0100		mg/L	1	4/4/2014
Nickel	ND	0.0100		mg/L	1	4/4/2014
Selenium	ND	0.0100		mg/L	1	4/4/2014

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
	RL	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:** 10-Apr-14

CLIENT: Germano
Lab Order: 1404001
Project: Needham Oil
Lab ID: 1404001-001

Client Sample ID: Sump
Collection Date: 4/1/2014 10:15:00 AM
Date Received: 4/1/2014
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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TOTAL METALS BY ICP - SW6010C

Analyst: ZYZ

Prep Method: (SW3010A)

Prep Date: 4/4/2014 12:03:14 PM

Silver	ND	0.0100		mg/L	1	4/7/2014
Zinc	ND	0.100		mg/L	1	4/4/2014

TOTAL METALS BY GFAA - 7010

Analyst: ZYZ

Prep Method: (SW3020A)

Prep Date: 4/8/2014 11:11:15 AM

Arsenic	ND	0.00100		mg/L	1	4/8/2014
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TOTAL MERCURY - 7470A

Analyst: EC

Prep Method:

Prep Date:

Mercury	ND	0.000200		mg/L	1	4/1/2014
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SEMIVOLATILE ORGANICS - SW8270C

Analyst: ZYZ

Prep Method: (SW3510)

Prep Date: 4/8/2014 8:53:21 AM

Acenaphthene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Acenaphthylene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Anthracene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Benz(a)Anthracene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Benzo(a)Pyrene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Benzo(b)Fluoranthene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Benzo(g,h,i)Perylene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Benzo(k)Fluoranthene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	27.2		µg/L	1	4/8/2014 6:33:00 PM
Butyl Benzyl Phthalate	ND	27.2		µg/L	1	4/8/2014 6:33:00 PM
Chrysene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Dibenz(a,h)Anthracene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Diethyl Phthalate	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Dimethyl Phthalate	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Di-n-Butyl Phthalate	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Di-n-Octyl Phthalate	ND	27.2		µg/L	1	4/8/2014 6:33:00 PM
Fluoranthene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Fluorene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
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: 10-Apr-14

CLIENT: Germano
 Lab Order: 1404001
 Project: Needham Oil
 Lab ID: 1404001-001

Client Sample ID: Sump
 Collection Date: 4/1/2014 10:15:00 AM
 Date Received: 4/1/2014
 Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

SEMIVOLATILE ORGANICS - SW8270C

Analyst: ZYZ

Prep Method: (SW3510)

Prep Date: 4/8/2014 8:53:21 AM

Indeno(1,2,3-cd)Pyrene	ND	0.109		µg/L	1	4/8/2014 6:33:00 PM
Naphthalene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Pentachlorophenol	ND	27.2		µg/L	1	4/8/2014 6:33:00 PM
Phenanthrene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Pyrene	ND	1.09		µg/L	1	4/8/2014 6:33:00 PM
Surr: 2,4,6-Tribromophenol	34.6	15-110		%REC	1	4/8/2014 6:33:00 PM
Surr: 2-Fluorobiphenyl	50.3	30-130		%REC	1	4/8/2014 6:33:00 PM
Surr: 2-Fluorophenol	14.1	15-110	S	%REC	1	4/8/2014 6:33:00 PM
Surr: Nitrobenzene-d5	42.7	30-130		%REC	1	4/8/2014 6:33:00 PM
Surr: Phenol-d6	14.2	15-110	S	%REC	1	4/8/2014 6:33:00 PM
Surr: Terphenyl-d14	69.4	30-130		%REC	1	4/8/2014 6:33:00 PM

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

1,1,1-Trichloroethane	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,1,2-Trichloroethane	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,1-Dichloroethane	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,1-Dichloroethene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,2-Dichlorobenzene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,3-Dichlorobenzene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,4-Dichlorobenzene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
1,4-Dioxane	ND	500		µg/L	1	4/2/2014 2:31:00 PM
2-Methoxy-2-Methylbutane (TAME)	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Acetone	ND	10.0		µg/L	1	4/2/2014 2:31:00 PM
Benzene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
cis-1,2-Dichloroethene	11.2	2.00		µg/L	1	4/2/2014 2:31:00 PM
Ethylbenzene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Methyl Tert-Butyl Ether	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Methylene Chloride	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Naphthalene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
t-Butyl Alcohol	ND	20.0		µg/L	1	4/2/2014 2:31:00 PM

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
	RL	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: 10-Apr-14

CLIENT: Germano
 Lab Order: 1404001
 Project: Needham Oil
 Lab ID: 1404001-001

Client Sample ID: Sump
 Collection Date: 4/1/2014 10:15:00 AM
 Date Received: 4/1/2014
 Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZC

Prep Method:

Prep Date:

Tetrachloroethene	185	20.0		µg/L	10	4/3/2014 12:49:00 PM
Toluene	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Trichloroethene	6.38	2.00		µg/L	1	4/2/2014 2:31:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Xylenes, Total	ND	2.00		µg/L	1	4/2/2014 2:31:00 PM
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	1	4/2/2014 2:31:00 PM
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%REC	10	4/3/2014 12:49:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	10	4/3/2014 12:49:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	4/2/2014 2:31:00 PM
Surr: Dibromofluoromethane	73.2	70-130		%REC	1	4/2/2014 2:31:00 PM
Surr: Dibromofluoromethane	70.8	70-130		%REC	10	4/3/2014 12:49:00 PM
Surr: Toluene-d8	93.8	70-130		%REC	1	4/2/2014 2:31:00 PM
Surr: Toluene-d8	96.5	70-130		%REC	10	4/3/2014 12:49:00 PM

PHENOLICS - E420.1

Analyst: SUB

Prep Method:

Prep Date:

Phenolics, Total Recoverable	ND	0.0150		mg/L	1	4/3/2014
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NOTES:

Analyzed by Phoenix Environmental Laboratories M-CT007

CHLORIDE - L-10-117-07-1-B

Analyst: RP

Prep Method:

Prep Date:

Chloride	105	2.00		mg/L	2	4/7/2014
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CYANIDE, TOTAL - SM4500 CN C&E

Analyst: WFR

Prep Method:

Prep Date:

Cyanide, Total	ND	0.0100		mg/L	1	4/8/2014
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TRIVALENT CHROMIUM IN WATER - 6010C&3500

Analyst: RP

Prep Method:

Prep Date:

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
	RL	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:** 10-Apr-14

CLIENT: Germano
Lab Order: 1404001
Project: Needham Oil
Lab ID: 1404001-001

Client Sample ID: Sump
Collection Date: 4/1/2014 10:15:00 AM
Date Received: 4/1/2014
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TRIVALENT CHROMIUM IN WATER - 6010C&3500						
Analyst: RP						
Prep Method: Prep Date:						
Trivalent Chromium,Cr3+	ND	0.050		mg/L	1	4/7/2014
HEXAVALENT CHROMIUM - SW 846 7196A						
Analyst: RP						
Prep Method: Prep Date:						
Hexavalent Chromium	ND	0.0100		mg/L	1	4/1/2014 3:20:00 PM
TOTAL RESIDUAL CHLORINE - HACH 8167						
Analyst: RP						
Prep Method: Prep Date:						
Total Residual Chlorine	ND	0.200	H	mg/L	1	4/2/2014 11:45:00 AM

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
	RL	Reporting Limit	S	Spike Recovery outside recovery limits

CHAIN OF CUSTODY RECORD

GeoLabs, Inc. Environmental Laboratories
45 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

Sample Handling: circle choice
Filtration ☐ Done ☒ Not Needed
Lab to do ☐ Lab to do ☒ Y/N

Special Instructions
Sb, As, Cd, Cu, Pb, Hg, Ni, Se, Ag, Zn, Fe

Turnaround: circle one
1-day ☐ 3-day ☐ 5-7 days ☒

Data Delivery: circle choice (s)
Fax ☐ Email ☒ PDF ☒
Format: Excel ☒

Requirements: circle choice (s)
CT RCP (Reasonable Confidence Protocols)
State / Fed Program - Criteria RGP

Project: Needham Oil

Project PO:
Invoice to: client

Client: Geacore
Address: 15 Pinehurst Rd
Contact: Frank Geronzi

Phone: 339-793-3528
Fax:
email: mg@geacore.com

COLLECTION				SAMPLE LOCATION / ID	CONTAINER		M A T R I X	C O M P	G R A B	Geolabs SAMPLE NUMBER	Preservative:							Analysis Requested					Lab Use Only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Matrix Codes: GW = Ground Water SL = Sludge DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge OT = Other

Received on Ice ☒

Preservatives: 1 = HCl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MECH

Containers: A = Amber B = Bag 0 = Other
G = Glass P = Plastic
S = Summa V = Voa

Relinquished by: Frank Geronzi Date / Time: 4/1/14 1115

Received by: Julia DeLucca Date / Time: 4/1/14 1115