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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

JUL 8 2011

Eric Lamontagne
Project Manager
NSTAR Gas Facility
One NSTAR Way
Westwood, MA 02090

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Inner/Outer Slip site located at 180 MacArthur Drive in Bedford, MA 02740, Bristol County; Authorization # MAG910495

Dear Mr. Lamontagne:

Based on the review of a Notice of Intent (NOI) submitted on behalf of NSTAR and Charter Environmental 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.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. With the absence of dilution of freshwater into tidal water, EPA determined that the Dilution Factor Range (DFR) for each parameter for this site is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for arsenic of 36ug/L, trivalent chromium of 100ug/L, hexavalent

chromium of 50.3ug/L, copper of 3.7ug/L, lead of 8.5 ug/L, nickel of 8.2ug/L, zinc of 85.6ug/L and iron of 1,000ug/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 9, 2011. 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,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Paul Lockwood, LRT

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910495 – New**
Authorization Issued:	July, 2011
Facility/Site Name:	Inner/Outer Slip
Facility/Site Address:	180 MacArthur Drive, New Bedford, MA 02740, Bristol County
	Email address of owner: Not Provided
Legal Name of Operator:	NSTAR
Operator contact name, title, and Address:	Eric Lamontagne. Project Manager, One NSTAR Way, Westwood, MA 02090
	Email: Not Provided
Estimated Date of Completion:	September 9, 2011
Category and Sub-Category:	Category III- Contaminated Construction Dewatering. Sub-category B. Known Contaminated Sites.
Receiving Water:	Acushnet River to New Bedford Harbor

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

	Parameter	**Effluent Limit/Method#/ML** (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#60.2/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

	Parameter	**Effluent Limit/Method#/ML** (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

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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/ML5ug/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/ML5ug/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 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]		Minimum level=ML	
			Saltwater		
	39. Antimony	5.6/ML 10			
√	40. Arsenic **		36/ML 20		
	41. Cadmium **		8.9/ML 10		
√	42. Chromium III (trivalent) **		100/ML 15		

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]		Minimum level=ML	
			Saltwater		
√	43. Chromium VI (hexavalent) **		50.3/ML 10		
√	44. Copper **		3.7/ML 15		
√	45. Lead **		8.5/ML 20		
√	46. Mercury **		1.1/ML 0.2		
√	47. Nickel **		8.2/ML 20		
	48. Selenium **		71/ML 20		
	49. Silver		2.2/ML 10		
√	50. Zinc **		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).

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

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

NEW
MAG910495

June 22, 2011
Project 2-1009

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
NSTAR Gas Facility
180 MacArthur Drive
New Bedford, Massachusetts 02740

To Whom It May Concern:

On behalf of NSTAR and Charter Environmental, Inc. (CEI), 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 RGP under Federal Register, Vol. 75, No. 174 and related guidance documentation provided by the EPA. The completed NOI form is provided in Appendix A.

Site Information

This NOI has been prepared for the management of dredging and dewatering operations at 180 MacArthur Drive in New Bedford, Massachusetts (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 Inner and Outer Slips and are bounded by the Acushnet River to the east, an oil storage and transfer terminal operated by Sprague Energy to the north, and property owned and operated by NSTAR Gas Company as an electric and gas distribution operations area (NSTAR Service Center) for field crews to the west and south; please refer to Figure 2 Site Plan.

This work will be regulated by the Massachusetts Department of Environmental Protection (MADEP) tracked under Release Tracking Number (RTN) 4-12592 and in accordance with the Massachusetts Contingency Plan (MCP; 310 CMR 40.0440). The specific plan for the work has been outlined in a Release Abatement Measure (RAM) Plan written by GEI Consultants dated November 4, 2010.

Work Summary

In accordance with the RAM Plan and the 401 Water Quality Certification dated March 23, 2011, the work to be completed at the Site will consist of the following tasks:

1. Permanently closing off the Inner Slip bulkhead;
2. Dredging of designated areas in the western portion of the Outer Slip;
3. Solidifying the Inner Slip and Outer Slip dredge spoils after their placement in the Inner Slip using in-situ solidification methods;
4. Installing an aquatic cap over the remaining western portion of the Outer Slip sediments; and
5. Installing a gravel cap on the solidified material in the Inner Slip.

The Inner Slip is approximately 45 feet wide by 200 feet long and is surrounded by sheet pile bulkheads to the north, west and south. Charter will install a new sheet pile bulkhead on the eastern boundary of the Inner Slip, permanently separating the Inner and Outer Slips. An additional sheet pile bulkhead will be installed within the Inner Slip, dividing the area into two treatment cells referred to as Cell 1 and 2. A weir will be installed within these bulkheads allowing tidal water to move back and forth between the Inner and Outer Slips. The entire Outer Slip area is approximately 11 acres (approximately 480,000 square feet). The western portion of the Outer Slip area (the area scheduled for dredging) totals less than 1 acre. Approximately 1,100 cubic yards of tar-impacted sediment will be dredged via a clamshell dredge and environmental bucket from the western portion of the Outer Slip. The dredge material will be placed directly into Cell 1 of the Inner Slip when possible. A portion of the dredge material cannot be placed directly in the Inner Slip due to site logistics; therefore, this dredge material will be placed temporarily into a hopper barge until a sufficient quantity of this material is available for transfer to the Inner Slip using a crane and bucket. Prior to this material being transferred to the Inner Slip via a crane and bucket, the free product (i.e., water) in the hopper barge will be pumped to Cell 2 of the Inner Slip for settling. After placement in Cell 2, this water will be allowed to flow back and forth between the Inner and Outer Slips through the previously mentioned weirs. The Inner Slip will act as a settling basin for the dredge material with decanted water flowing out through the weir openings to the Outer Slip. To mitigate impacts from the dredging, a fixed turbidity curtain will be installed and maintained around the proposed work area in the Outer Slip. Upon completion of the dredging, approximately 1,500 cubic yards of Portland cement will be added to the Inner Slip via a soil mixing/drilling rig. A working platform will be built in Cells 1 and 2 in order to complete this work. Dewatering will be maintained via sumps at least 3 feet below the working platform. Pumped water from dewatering will be routed through the water treatment system (WTS) and discharged to a point at the north bulkhead of the Outer Slip within the fixed turbidity curtain. Please refer to Figure 3 for a process and instrumentation diagram of the proposed WTS. If at any time water discharged to the Outer Slip does not meet the NPDES discharge standards, then appropriate modifications will be made to the WTS to ensure compliance with the discharge standards.

Following in-situ solidification, the Inner Slip will be covered with a geotextile demarcation layer then capped with 3 feet of clean soil. The western portion of the Outer Slip will be capped with a low permeability organo-clay layer and covered with gravel to protect the clay layer during installation of a stone armor layer. The stone armor layer will be placed over the organo-clay layer and gravel protection layer to protect it from turbulence generated by commercial boat traffic, tidal action and/or storm events. The stone armor layer will be covered by a benthic sand layer.

Discharge and Receiving Surface Water Information

Based on previous characterizations at the Site, and analytical sampling conducted by Charter, the water collected during dewatering activities at the Site is expected to contain total suspended solids (TSS), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), inorganic compounds, polychlorinated biphenyls (PCBs), several total metals and cyanide. Also, due to the introduction of cement during the in-situ solidification process, there is as possibility of elevated

pH. As stated above, the treated water will discharged to the Outer Slip within the turbidity curtain. Representative analytical data of the water to be discharged to the Outer Slip is included in Appendix B. It is expected that dissolved metals will not be an issue on this project as total metals are expected to be removed via settling and mechanical filtration as the TSS are removed.

Calculation of Dilution Criteria

The section of the Acushnet River abutting the Site has been classified as a saline water body or SB. Therefore, dilution criteria are not applicable.

Consultation with Federal Services

LRT reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (Mass GIS), the Massachusetts Division of Fisheries and Wildlife (Mass Wildlife; 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, nor are they listed as a National Historic Places.

Coverage under NPDES RGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP. On behalf of NSTAR and Charter Environmental, Inc., we are requesting coverage under the NPDES RGP for the discharge of recovered water during construction activities to the surface waters of the Acushnet River in New Bedford, MA

The enclosed NOI form provides required information on general site conditions, discharge, the water treatment system, the receiving surface water body and consultation with federal services. For this project, NSTAR is the Owner and 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 Water Treatment System Process & Instrumentation Diagram
Appendix A – Notice of Intent Form
Appendix B – Analytical Data
Appendix C – Chemical MSDS Sheets

cc: Charter Environmental, Inc.
MA DEP- Region 1
City of New Bedford, Chief Municipal Officer

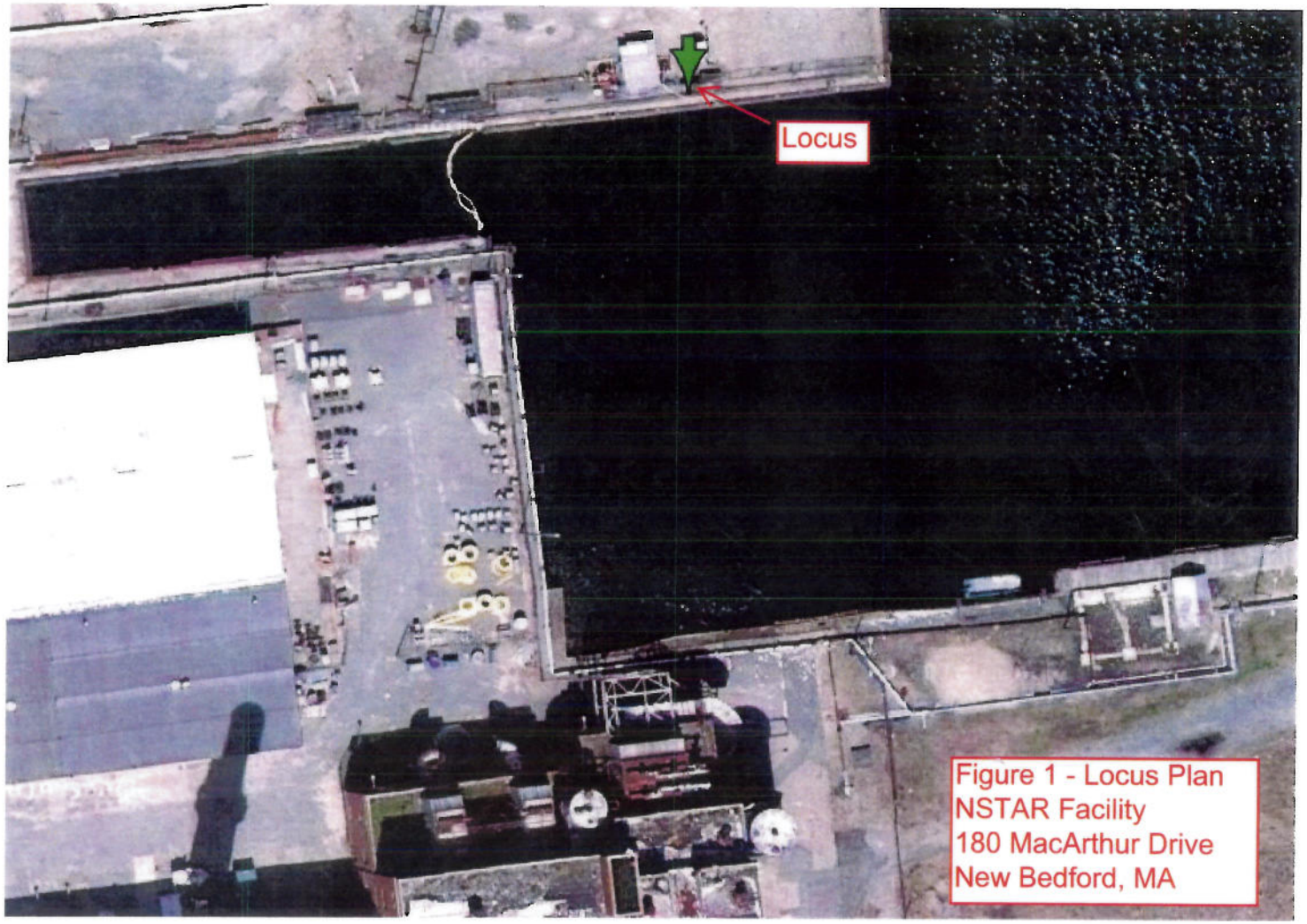
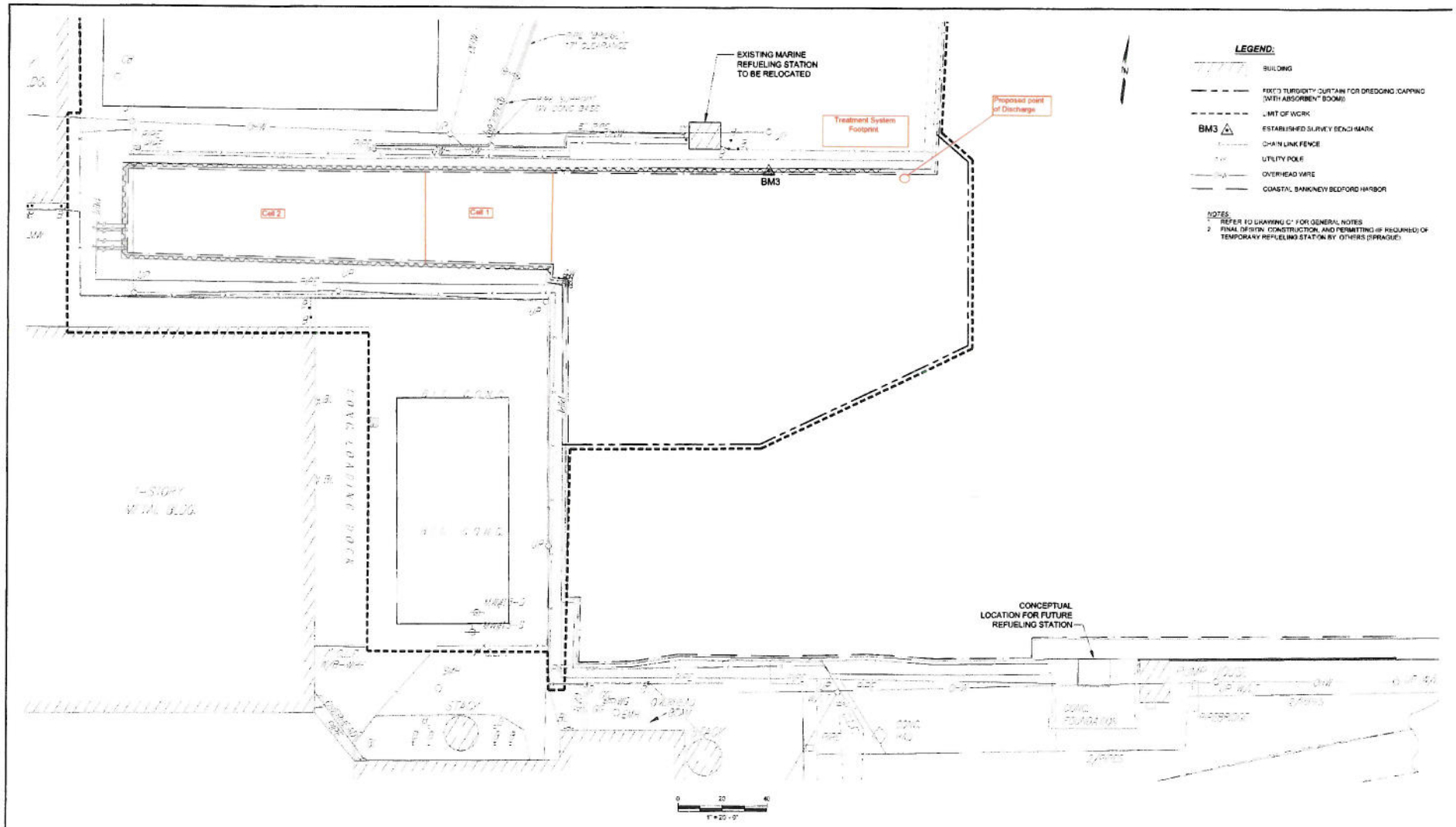


Figure 1 - Locus Plan
NSTAR Facility
180 MacArthur Drive
New Bedford, MA

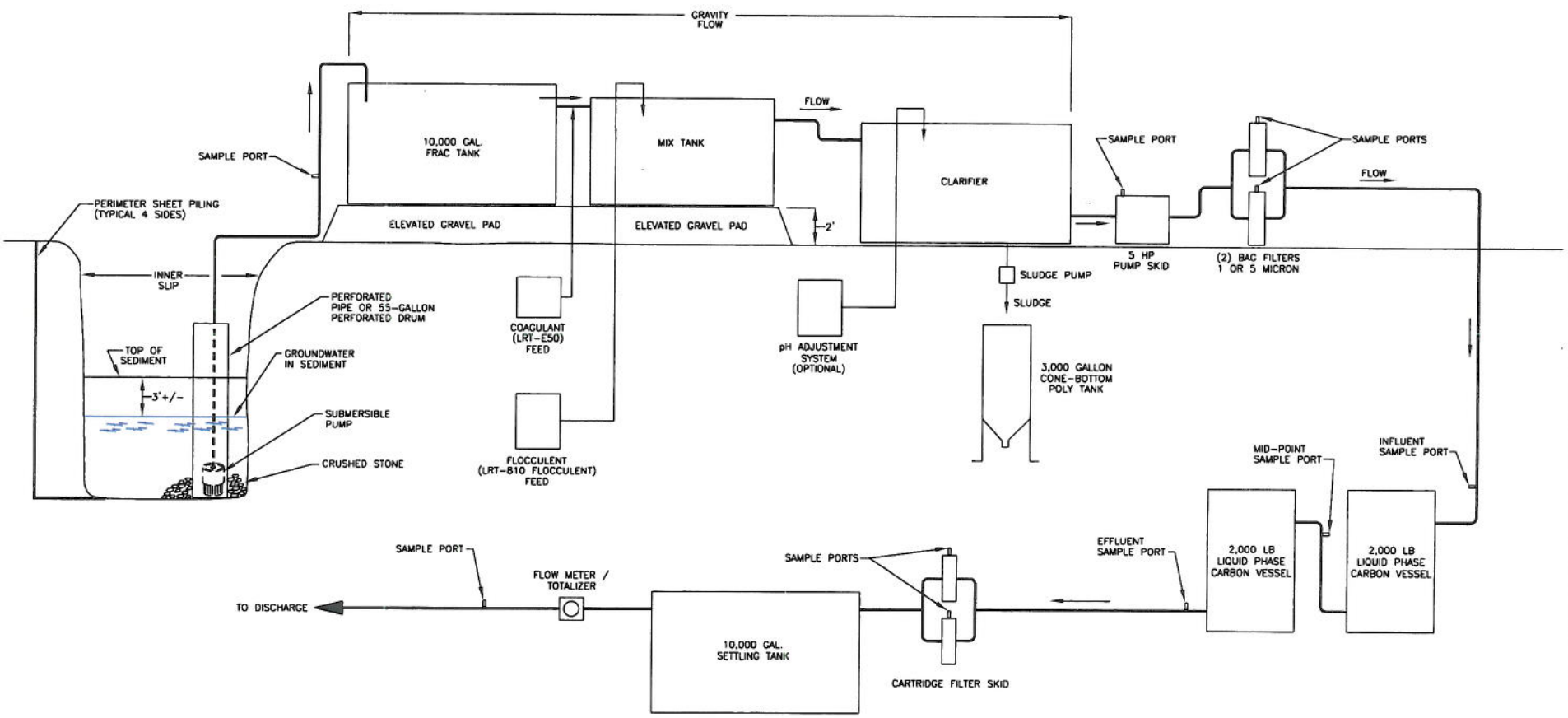


Note: Drawing based on GEI Drawing No. C10, sheet 11 of 29 dated 11/02/2010

NSTAR - FACILITY

180 MacArthur Drive/1 Pine Street
New Bedford, Massachusetts

FIGURE 2 - SITE PLAN



NOTE: SYSTEM IS RATED FOR FLOWS OF UP TO 100 G.P.M.

LRT Lockwood Remediation Technologies LLC

LOCKWOOD REMEDIATION TECHNOLOGIES LLC
127 HARTWELL STREET, SUITE 3
WEST BOYLSTON, MA 01583
TEL.: 774.450.7177 FAX: 888.835.0617
www.lrt-llc.net

WATER TREATMENT SYSTEM
PROCESS & INSTRUMENTATION DIAGRAM

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 5/27/11	APP. BY: PL	JOB NO.: 2-1009
CLIENT: CHARTER ENVIRONMENTAL		FIGURE 3
SITE: NSTAR GAS FACILITY 180 MacARTHUR DRIVE NEW BEDFORD, MA		

Appendix A

Notice of Intent 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**: Inner/Outer Slip		**Facility/site** mailing address:		
Location of **facility/site**: longitude: -70.919473 latitude: 41.631402	Facility SIC code(s): 4911	Street: 180 MacArthur Drive		
b) Name of **facility/site owner:**		Town: New Bedford		
Email address of facility/site owner:		State: MA	Zip: 02740	County: Bristol
Telephone no. of facility/site **owner**: 339-987-7018				
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: One NSTAR Way				
Town: Westwood	State: MA	Zip: 02090	County:	
c) Legal name of **operator**:	**Operator** telephone no: 339-987-7018			
NSTAR	**Operator** fax no.:		**Operator** email:	
Operator contact name and title: Eric Lamontagne				
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: MA
2. permit or license # assigned: RTN 4-12592
3. state agency contact information: name, location, and telephone number:

MADEP - SERO
20 Riverside Drive, Lakeville, MA 02347

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: 401 WQC #X234709

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.

Activity Category	**Activity Sub-Category**
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 ☒

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.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	1	grab	SM2540D	20,000	870,000	1045	870,000	1045
2. Total Residual Chlorine (TRC)		☒	☐								
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	1	grab	8015DRO	500	3,000	3.6	3,000	3.6
4. Cyanide (CN)	57125	☐	☒	1	grab	9010					
5. Benzene (B)	71432	☒	☐	1	grab	sw8260					
6. Toluene (T)	108883	☒	☐	1	grab	sw8260					
7. Ethylbenzene (E)	100414	☐	☒	1	grab	sw8260	1	3.5	.004	3.5	.004
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	grab	sw8260	1	1.2	.001	1.2	.001
9. Total BTEX [2]	n/a	☐	☒	1	grab	sw8260	1	4.7	.005	4.7	.005
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	grab	sw8260					
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	grab	sw8260					
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	grab	sw8260					

* 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.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	1	grab	sw8260					
14. Naphthalene	91203	☐	☒	1	grab	sw8260	1	3.7	.004	3.7	.004
15. Carbon Tetrachloride	56235	☒	☐	1	grab	sw8260					
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	grab	sw8260					
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	grab	sw8260					
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	grab	sw8260					
18a. Total dichlorobenzene		☒	☐	1	grab	sw8260					
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	grab	sw8260					
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	grab	sw8260					
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	grab	sw8260					
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	grab	sw8260					
23. Methylene Chloride	75092	☒	☐	1	grab	sw8260					
24. Tetrachloroethene (PCE)	127184	☒	☐	1	grab	sw8260					
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	grab	sw8260					
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	grab	sw8260					
27. Trichloroethene (TCE)	79016	☒	☐	1	grab	sw8260					

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	grab	sw8260					
29. Acetone	67641	☒	☐	1	grab	sw8260					
30. 1,4 Dioxane	123911	☒	☐	1	grab	sw8260					
31. Total Phenols	108952	☒	☐	1	grab	sw8270					
32. Pentachlorophenol (PCP)	87865	☒	☐	1	grab	sw8270					
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	grab	sw8270					
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	grab	sw8270					
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐								
a. Benzo(a) Anthracene	56553	☒	☐	1	grab	sw8270					
b. Benzo(a) Pyrene	50328	☒	☐	1	grab	sw8270					
c. Benzo(b)Fluoranthene	205992	☒	☐	1	grab	sw8270					
d. Benzo(k)Fluoranthene	207089	☒	☐	1	grab	sw8270					
e. Chrysene	21801	☒	☐	1	grab	sw8270					
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	grab	sw8270					
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	grab	sw8270					
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	grab	sw8270					

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☒	☐	1	grab	sw8270					
i. Acenaphthylene	208968	☒	☐	1	grab	sw8270					
j. Anthracene	120127	☒	☐	1	grab	sw8270					
k. Benzo(ghi) Perylene	191242	☒	☐	1	grab	sw8270					
l. Fluoranthene	206440	☒	☐	1	grab	sw8270					
m. Fluorene	86737	☒	☐	1	grab	sw8270					
n. Naphthalene	91203	☒	☐	1	grab	sw8270					
o. Phenanthrene	85018	☒	☐	1	grab	sw8270					
p. Pyrene	129000	☒	☐	1	grab	sw8270					
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☐	☒	1	grab	8082	5	6.1	.007	6.1	.007
38. Chloride	16887006	☒	☐								
39. Antimony	7440360	☒	☐								
40. Arsenic	7440382	☐	☒	1	grab	6010	4	19	.023	19	.023
41. Cadmium	7440439	☒	☐	1	grab	6010					
42. Chromium III (trivalent)	16065831	☐	☒	1	grab	6010	1	107 (total)	.129	107	.129
43. Chromium VI (hexavalent)	18540299	☐	☒	1	grab	6010	1	107 (total)	.129	107	.129
44. Copper	7440508	☐	☒	1	grab	6010	1	378	.454	378	.454
45. Lead	7439921	☐	☒	1	grab	6010	2	116	.139	116	.139
46. Mercury	7439976	☒	☐	1	grab	6010					
47. Nickel	7440020	☐	☒	1	grab	6010	1	18	.022	18	022
48. Selenium	7782492	☒	☐	1	grab	6010					
49. Silver	7440224	☒	☐	1	grab	6010					
50. Zinc	7440666	☐	☒	1	grab	6010	2	378	.454	378	.454
51. Iron	7439896	☐	☒	1	grab	6010	2	19,100	22.94	19100	22.94
Other (describe):		☐	☐								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
Barium		☐	☒	1	grab	6010	2	77	.092	77	.092
		☐	☐								

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

Step 1: 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? Chromium, Copper, Iron, Lead, Nickel, Zinc.
Step 2: 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: N/A

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:

See attached figure.

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):	Clarifier w/ chemical additives		

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 50 gpm Maximum flow rate of treatment system 100 gpm
Design flow rate of treatment system 100 gpm

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

Coagulant - LRT E-50
Flocculent - LRT 810

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:
Acushnet River/New Bedford Harbor

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 SB

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water N/A 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)? Priority Organics, Metals, Nutrients, Organic enrichment/Low DO, Pathogens

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:	NSTAR Gas Facility
Operator signature:	Eric LaMontagne
Printed Name &Title:	Eric Lamontagne - Project Manager
Date:	6-24-11

Appendix B

Analytical Data

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

June 17, 2011

FOR: Attn: Mr Robert Johnson
Charter Environmental Inc
560 Harrison Avenue 5th Floor
Boston MA 02118

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	SR	05/19/11	18:00
Location Code:	CHARTER | 051911	Received by:	SW	05/20/11	15:51
Rush Request:	RUSH24	Analyzed by:	see "By" below		
P.O.#:	20790				

Laboratory Data

SDG ID: GBA33657
Phoenix ID: BA33657

Project ID: NEW BEDFORD MA

Client ID: WATER 051911

Parameter	Result	RL	Units	Date	Time	By	Reference
Silver	< 0.005	0.005	mg/L	05/26/11		EK	6010/200.7
Arsenic	0.019	0.004	mg/L	05/24/11		LK	6010/200.7
Barium	0.077	0.002	mg/L	05/24/11		LK	6010/200.7
Cadmium	< 0.001	0.001	mg/L	05/24/11		LK	6010/200.7
Chromium	0.107	0.001	mg/L	05/24/11		LK	6010/200.7
Copper	0.378	0.001	mg/L	05/24/11		EK	6010/200.7
Iron	19.1	0.002	mg/L	05/24/11		EK	6010/200.7
Mercury	< 0.0002	0.0002	mg/L	05/23/11		RS	7470/E245.1
Nickel	0.018	0.001	mg/L	05/24/11		EK	6010/200.7
Lead	0.116	0.002	mg/L	05/24/11		LK	6010/200.7
Selenium	< 0.010	0.010	mg/L	05/24/11		LK	6010/200.7
Zinc	0.378	0.002	mg/L	05/24/11		EK	6010/200.7
pH	7.52	0.10	pH	05/21/11	0:38	BS/EG	4500-H B/9040
Total Cyanide	< 0.005	0.005	mg/L	05/25/11		O/G	335.4/9010
Total Suspended Solids	870	20	mg/L	05/23/11		CL/EG	SM2540D
Mercury Digestion	Completed			05/23/11			7471/245.1
PCB Extraction	Completed			05/22/11		D	SW3510C
Semi-Volatile Extraction	Completed			05/20/11		R/D	SW3520
Total Metals Digestion	Completed			05/23/11		AG	
Extraction of TPH	Completed			05/20/11		FR/E	3510/3520
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/21/11		R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	05/21/11		R/T	SW8260

Project ID: NEW BEDFORD MA
Client ID: WATER 051911

Phoenix I.D.: BA33657

Parameter	Result	RL	Units	Date	Time	By	Reference
1,1-Dichloropropene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2-Dichloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	05/21/11		R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	05/21/11		R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	05/21/11		R/T	SW8260
2-Hexanone	ND	5.0	ug/L	05/21/11		R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	05/21/11		R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	05/21/11		R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	05/21/11		R/T	SW8260
Acetone	ND	25	ug/L	05/21/11		R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	05/21/11		R/T	SW8260
Benzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Bromobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	05/21/11		R/T	SW8260
Bromoform	ND	1.0	ug/L	05/21/11		R/T	SW8260
Bromomethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	05/21/11		R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	05/21/11		R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Chloroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Chloroform	ND	1.0	ug/L	05/21/11		R/T	SW8260
Chloromethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/21/11		R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	05/21/11		R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	05/21/11		R/T	SW8260
Dibromoethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Dibromomethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Ethylbenzene	3.5	1.0	ug/L	05/21/11		R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	05/21/11		R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	05/21/11		R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/21/11		R/T	SW8260
Methylene chloride	ND	1.0	ug/L	05/21/11		R/T	SW8260
Naphthalene	3.7	1.0	ug/L	05/21/11		R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
o-Xylene	1.2	1.0	ug/L	05/21/11		R/T	SW8260

Parameter	Result	RL	Units	Date	Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	05/21/11		R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Styrene	ND	1.0	ug/L	05/21/11		R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	05/21/11		R/T	SW8260
Toluene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Total Xylenes	1.2	1.0	ug/L	05/21/11		R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/21/11		R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	05/21/11		R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/21/11		R/T	SW8260
Trichloroethene	ND	1.0	ug/L	05/21/11		R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	05/21/11		R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	05/21/11		R/T	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/21/11		R/T	SW8260
% Bromofluorobenzene	99		%	05/21/11		R/T	SW8260
% Dibromofluoromethane	80		%	05/21/11		R/T	SW8260
% Toluene-d8	101		%	05/21/11		R/T	SW8260
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	05/24/11		DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	05/24/11		DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	05/24/11		DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	05/24/11		DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	05/24/11		DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	05/24/11		DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	05/24/11		DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	05/24/11		DD	SW8270
2-Chlorophenol	ND	10	ug/L	05/24/11		DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	05/24/11		DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	05/24/11		DD	SW8270
2-Nitroaniline	ND	50	ug/L	05/24/11		DD	SW8270
2-Nitrophenol	ND	10	ug/L	05/24/11		DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	05/24/11		DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	05/24/11		DD	SW8270
3-Nitroaniline	ND	50	ug/L	05/24/11		DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	05/24/11		DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/24/11		DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	05/24/11		DD	SW8270
4-Chloroaniline	ND	20	ug/L	05/24/11		DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/24/11		DD	SW8270
4-Nitroaniline	ND	20	ug/L	05/24/11		DD	SW8270
4-Nitrophenol	ND	50	ug/L	05/24/11		DD	SW8270
Acetophenone	ND	5.0	ug/L	05/24/11		DD	SW8270

Project ID: NEW BEDFORD MA
Client ID: WATER 051911

Phoenix I.D.: BA33657

Parameter	Result	RL	Units	Date	Time	By	Reference
Aniline	ND	10	ug/L	05/24/11		DD	SW8270
Anthracene	ND	5.0	ug/L	05/24/11		DD	SW8270
Azobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
Benzidine	ND	50	ug/L	05/24/11		DD	SW8270
Benzoic acid	ND	50	ug/L	05/24/11		DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	05/24/11		DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/24/11		DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/24/11		DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/24/11		DD	SW8270
Carbazole	ND	5.0	ug/L	05/24/11		DD	SW8270
Dibenzofuran	ND	5.0	ug/L	05/24/11		DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	05/24/11		DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	05/24/11		DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	05/24/11		DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	05/24/11		DD	SW8270
Fluoranthene	ND	5.0	ug/L	05/24/11		DD	SW8270
Fluorene	ND	5.0	ug/L	05/24/11		DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	05/24/11		DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/24/11		DD	SW8270
Isophorone	ND	5.0	ug/L	05/24/11		DD	SW8270
Naphthalene	ND	5.0	ug/L	05/24/11		DD	SW8270
Nitrobenzene	ND	5.0	ug/L	05/24/11		DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	05/24/11		DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/24/11		DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/24/11		DD	SW8270
Phenol	ND	10	ug/L	05/24/11		DD	SW8270
Pyrene	ND	5.0	ug/L	05/24/11		DD	SW8270
Pyridine	ND	5.0	ug/L	05/24/11		DD	SW8270
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	05/24/11		DD	SW8270
% 2-Fluorobiphenyl	100		%	05/24/11		DD	SW8270
% 2-Fluorophenol	78		%	05/24/11		DD	SW8270
% Nitrobenzene-d5	84		%	05/24/11		DD	SW8270
% Phenol-d5	62		%	05/24/11		DD	SW8270
% Terphenyl-d14	78		%	05/24/11		DD	SW8270
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	05/23/11		DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	05/23/11		DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	05/23/11		DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	05/23/11		DD	SW8270 (SIM)
Chrysene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/23/11		DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	05/23/11		DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	05/23/11		DD	SW8270 (SIM)

Parameter	Result	RL	Units	Date	Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	05/23/11		DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	05/23/11		DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	05/23/11		DD	SW8270 (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	05/23/11		DD	SW8270 (SIM)
% 2-Fluorobiphenyl	100		%	05/23/11		DD	SW8270 (SIM)
% 2-Fluorophenol	78		%	05/23/11		DD	SW8270 (SIM)
% Nitrobenzene-d5	84		%	05/23/11		DD	SW8270 (SIM)
% Phenol-d5	62		%	05/23/11		DD	SW8270 (SIM)
% Terphenyl-d14	78		%	05/23/11		DD	SW8270 (SIM)
Polychlorinated Biphenyls							
PCB-1016	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1221	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1232	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1242	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1248	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1254	6.1	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1260	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1262	ND	5.0	ug/L	05/23/11		MH	608/ 8082
PCB-1268	ND	5.0	ug/L	05/23/11		MH	608/ 8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	05/23/11		MH	608/ 8082
% TCMX	Diluted Out		%	05/23/11		MH	608/ 8082
TPH by GC (Extractable Products)							
Aviation Fuel/Kerosene	ND	0.50	mg/L	05/24/11		JRB	8015DRO
Fuel Oil #2/ Diesel Fuel	ND	0.50	mg/L	05/24/11		JRB	8015DRO
Fuel Oil #4	ND	0.50	mg/L	05/24/11		JRB	8015DRO
Fuel Oil #6	ND	0.50	mg/L	05/24/11		JRB	8015DRO
Motor Oil	**	0.50	mg/L	05/24/11		JRB	8015DRO
Other Oil (Cutting & Lubricating)	ND	0.50	mg/L	05/24/11		JRB	8015DRO
Unidentified	3.0	0.50	mg/L	05/24/11		JRB	8015DRO
QA/QC Surrogates							
% n-Pentacosane	88		%	05/24/11		JRB	8015DRO