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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

SEP 15 2011

Patrick D. Corcoran, LSP
Senior Project Manager
EnviroTrack Ltd.
2 Merchant Street, Suite 2
Sharon, MA 02067

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Sunoco Service Station site located at 1707 Revere Beach Parkway, Everett, MA 02149-5909, Middlesex County; Authorization # MAG910500

Dear Mr. Corcoran:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Sunoco Inc. by your firm EnviroTrack Ltd., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

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

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. The checklist also includes a parameter for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on 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 copper of 3.7ug/L, lead of 8.5 ug/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 in October 2011. 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,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
David Ravanesi, Everett Public Works

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910500 - New**
Authorization Issued:	September, 2011
Facility/Site Name:	Sunoco Service Station
Facility/Site Address:	1707 Revere Beach Parkway, Everett, MA 02149-5909, Middlesex County.
	Address of owner: Best Petroleum Net lease C/O Sunoco, Inc. Tax Dept.
Legal Name of Operator:	EnviroTrack Ltd.
Operator contact name, title, and Address:	Patrick D. Corcoran 2 Merchant Street, Suite 2, Sharon, MA 02067
	Email: Patrick@envirotrack.com
Estimated Date of Completion:	October 2011
Category & Subcategory:	Category I. Petroleum Relates Discharges. Sub-category A. Gasoline Only Discharges
Receiving Water:	Island End River to Chelsea River

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)
	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/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] Saltwater		Minimum level=ML	
	39. Antimony	5.6/ML 10			
	40. Arsenic **		36/ML 20		

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

EnviroTrac
Environmental Services

August 30, 2011

United States Environmental Protection Agency
RGP – NOI Processing
1 Congress Street
Boston, Massachusetts 02114-2023

Re: Remediation General Permit – Notice of Intent
Sunoco-branded Service Station
1707 Revere Beach Parkway Road
Everett, Massachusetts 02149-5909
Sunoco DUNS 0475-5070
MassDEP RTN 3-1564

To Whom It May Concern:

At the request of Sunoco, Inc. (R&M) (Sunoco), EnviroTrac Ltd (EnviroTrac) is submitting the attached Remediation General Permit (RGP) – Notice of Intent (NOI) for the above-referenced location, referred to as the site. The RGP-NOI form is included as **Attachment A**. The site is currently a Sunoco-branded petroleum retail station. Temporary construction dewatering will be required to facilitate the removal and installation of underground storage tanks (USTs). Based on gauging of monitoring wells at the site, the depth to groundwater is approximately 6 feet below grade surface. Excavations to approximately 15 feet below grade surface will be required for the UST installation. The location of the site and discharge receiving waters are depicted on **Figure 1**. Also attached is a site plan (**Figure 2**), which depicts the existing site features and the catch basin which represents the proposed discharge point.

During the construction dewatering process, groundwater will be pumped from the excavation into a weir-style roll off, a fractionation tank for settlement, then pumped through bag filters arranged in series, and a cartridge filter, before treatment via two 1,000-pound liquid phase carbon units and two cation exchange resin units. A schematic drawing is included in **Attachment B**. The treated effluent will be discharged via the catch basin on the property, which discharges to drainage located in Revere Beach Parkway, which ultimately discharges to Island End River. The average discharge rate of treated groundwater is anticipated to be approximately 30 gallons per minute.

On July 22, 2011 and July 27, 2011, groundwater samples were obtained from an existing onsite monitoring well (OW-1) adjacent to the proposed excavation area. Based on the analytical data, total residual chlorine, chloride, total suspended solids (TSS), copper, lead, zinc and iron were detected. Concentrations of lead, zinc, copper, and TSS exceeded the applicable Effluent Limitations published in Appendix III of the RGP under the National Pollutant Discharge

Elimination System for Discharges in Massachusetts. The laboratory analytical report supporting this submittal is included in **Attachment C**.

The site is not located at or near any location specified in the RGP as subject to consultation with the U.S. Fisheries and Wildlife Service or the National Fisheries Service. According to the National Park Service's National Register Information System (NRIS) (http://www.cr.nps.gov/), there are more then 1,300 listed historical sites in Middlesex county; however, there are no listed historical sites in Everett, Massachusetts. The Massachusetts Historical Commission's Massachusetts Cultural Resource Information System (MACRIS) (http://www.sec.state.ma.us/mhc/) listed more than 260 sites in Everett. The nearest Massachusetts-listed site, C. B. Faith Furniture Company Building at 2-22 Chelsea Street, is located approximately 1,000 feet northwest of the site. Based on the distances to the site, the discharge will not likely adversely affect the historical sites. Copies of the NRIS and MACRIS listings are included in **Attachment D**. Copies of the Material Safety Data Sheets for the polymers to be used as a coagulant to aid in the removal of metals from groundwater prior to discharge are included as **Attachment E.**

The excavation and dewatering will be conducted as a Post-Response Action Outcome (RAO) Response Action pursuant to post-RAO provisions of the Massachusetts Contingency Plan as set forth at 310 CMR 40.1067(4)(b). Therefore, completion and submittal of Massachusetts Application Form BRPWM 12 or payment of a state fee are not required.

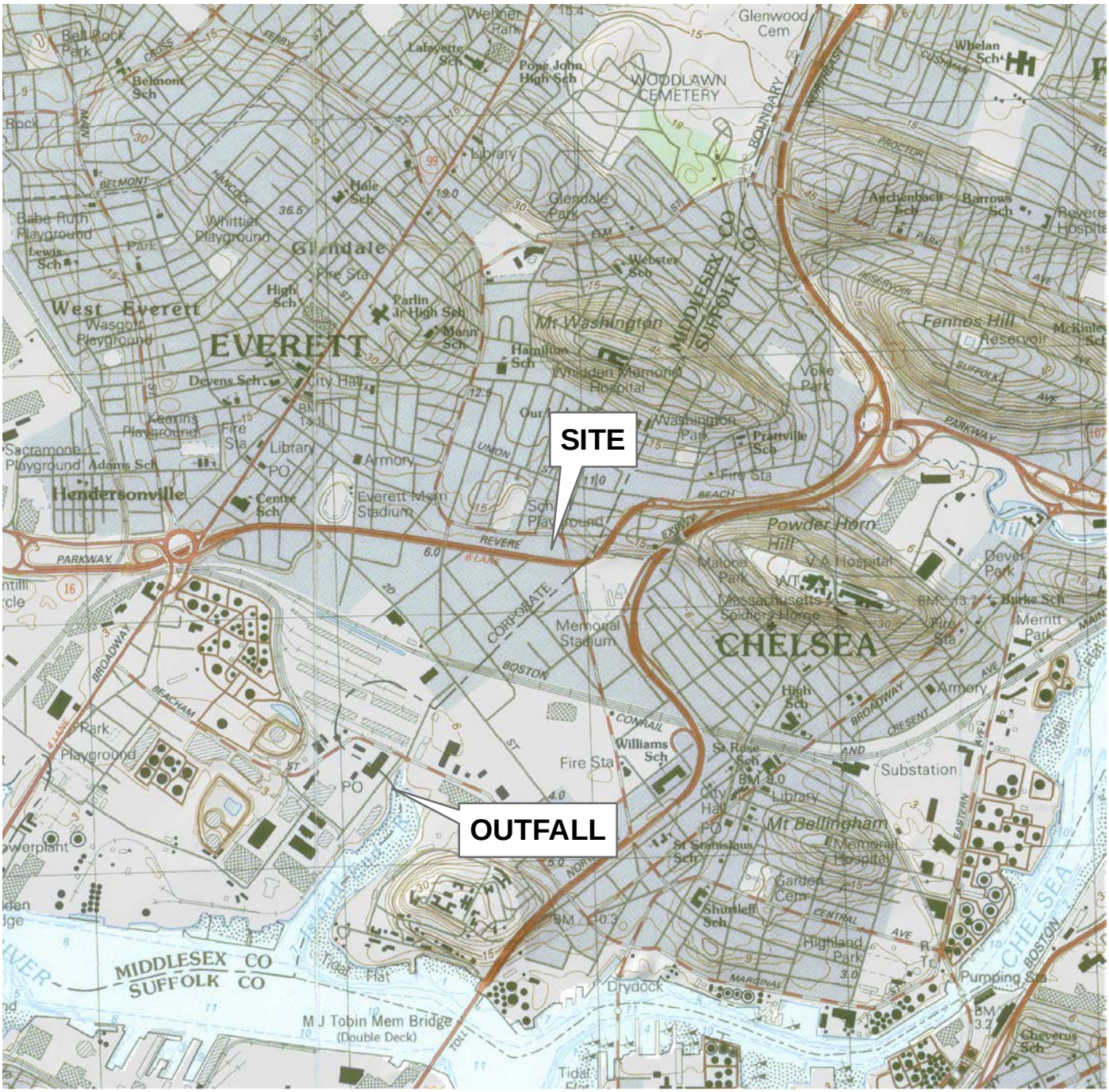
If you have any questions or require further information, please contact the undersigned at (781) 793-0074.

Sincerely,
EnviroTrac Ltd.

Patrick D. Corcoran, LSP
Senior Project Manager

cc.: MassDEP NERO
Carlo DeMaria, Jr., Mayor, City of Everett
M. Grendal, Sunoco Inc. (R&M)
W. Brochu, Sunoco Inc. (R&M)
Y. Monti, Sunoco Inc. (R&M)

FIGURES



Scale: 1:24,000

Sunoco Service Station
1707 Revere Beach Parkway
Everett, MA 02149-5909

FIGURE 1

SITE LOCUS MAP
UNITED STATES GEOLOGICAL SURVEY
BOSTON NORTH, MA QUADRANGLE

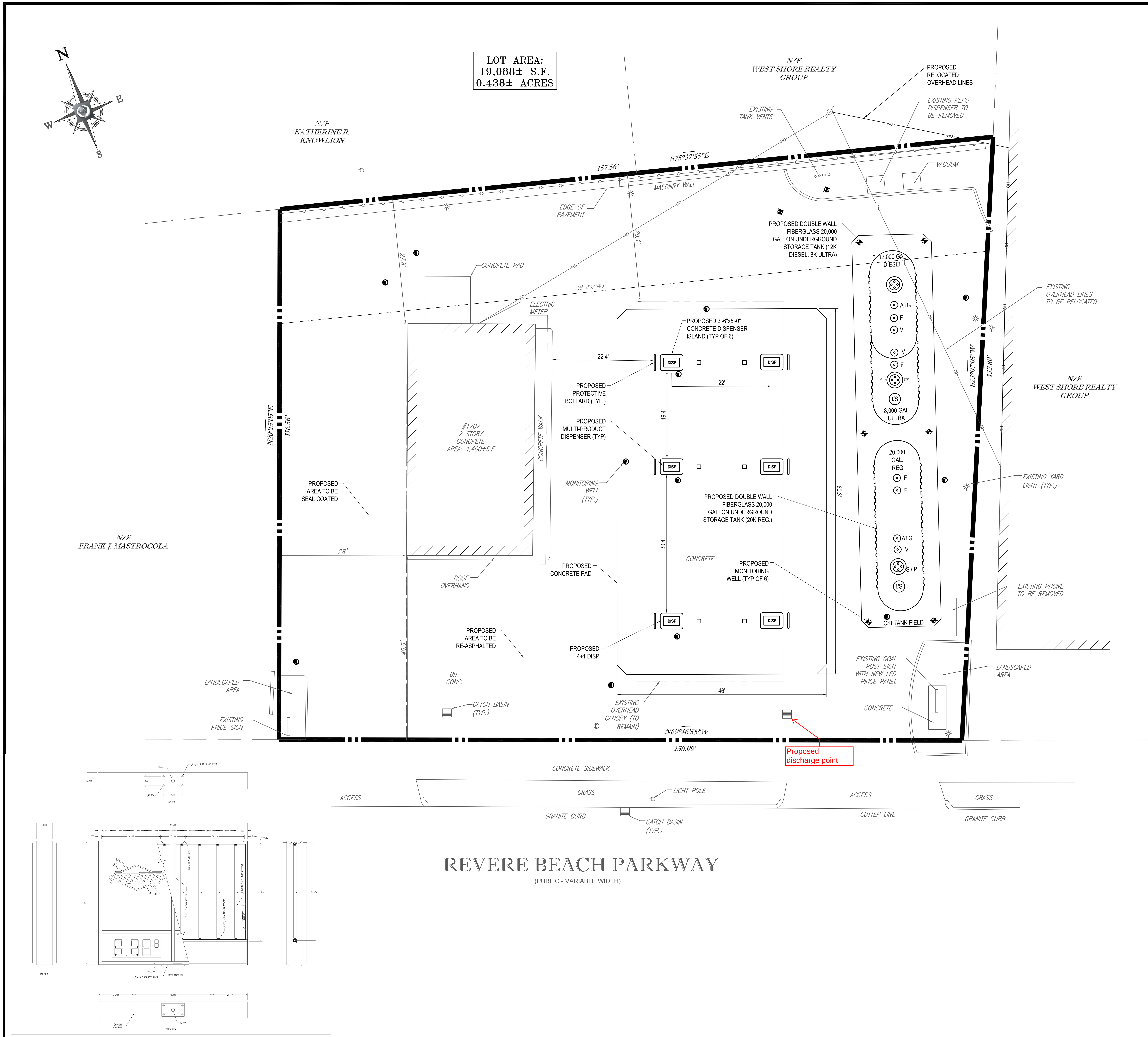
Contour Interval: 3 m

Latitude/Longitude:

42° 24' 08" North
71° 02' 35" West

N
W E
S

EnviroTrac
Environmental Services



GENERAL SITE PLAN NOTES

1. THIS PLAN REFERENCES A SURVEY PREPARED BY:

   BOCK & CLARK'S NATIONAL SURVEYORS NETWORK
   4 FIRST STREET
   BRIDGEWATER, MA 02324
   DATED: 08/23/99 REVISED THROUGH 09/03/99 AND SCALED 1"=20'

2. SPECIFIC RESOURCES, TECHNICAL REPORTS, DESIGN DOCUMENTS, ET. AL. RELATED TO THIS PROJECT INCLUDE (BUT MAY NOT BE LIMITED TO) THE FOLLOWING:

   -SURVEY: "ALTA/ACSM LAND TITLE SURVEY" PREPARED BY BOCK & CLARK'S NATIONAL SURVEYORS NETWORK, BRIDGEWATER, MA, SCALE: 1"=20, DATED 08/23/99 REVISED THROUGH 09/03/99
   -GEOTECH:

   CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE DOCUMENTS AND FAMILIARIZING THEMSELVES WITH SAME FOR APPLICATION BOTH PRIOR TO AND DURING CONSTRUCTION.

3. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE REFERENCED SURVEYOR'S BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUNDBREAK.

   APPLICANT:
   SUNOCO REFINING AND MARKETING COMPANY
   FACILITIES AND DISTRIBUTION DEPARTMENT
   PHILADELPHIA, PA

4. PARCEL DATA: LOT IS SHOWN ON THE CITY OF EVERETT ASSESSOR'S MAP.

5. ALL HANDICAP PARKING SPACES SHALL BE CONSTRUCTED TO MEET CURRENT ADA/AAB REQUIREMENTS.

6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.

7. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR ANY/ALL CERTIFICATIONS, INSPECTIONS, ETC. REQUIRED BY ALL GOVERNING JURISDICTIONAL AGENCIES DURING AND AFTER CONSTRUCTION FOR SIGN-OFF AND CERTIFICATE OF OCCUPANCY ISSUANCE, INCLUDING BUT NOT LIMITED TO PROCUREMENT OF SERVICES, SCHEDULING OF FIELD OBSERVATIONS AND COORDINATION WITH REPRESENTATIVES OF THE APPROPRIATE PARTIES.

8. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.

9. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN GEOTECHNICAL REPORT AND PLANS, ETC.

10. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.

11. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE INHIBITED BY ANY OTHER SITE FEATURES.

12. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

13. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.

14. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED HAZARDOUS MATERIAL, AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.

15. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

16. CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES AS NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF PAVEMENT, STRUCTURES, ETC. TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

17. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND FOR NOTIFYING CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. REPAIR SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

18. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

19. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS/MEANS FOR COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFICATION OF OWNER AND ENGINEER OF RECORD WHEN A CONFLICT IS IDENTIFIED.

20. ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAVE THEY BEEN RETAINED FOR SUCH PURPOSES.

21. ALL CONTRACTORS MUST CARRY STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, AND ITS SUB-CONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS BOHLER ENGINEERING AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

22. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, NOR THE PRESENCE OF BOHLER ENGINEERING OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. BOHLER ENGINEERING AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOHLER ENGINEERING SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

23. BOHLER ENGINEERING SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. BOHLER ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF BOHLER ENGINEERING IN WRITING BY THE CONTRACTOR. BOHLER ENGINEERING SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

24. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, BOHLER ENGINEERING AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NON-BINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.

25. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUB-CONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.

26. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

1"= 10'

BOHLER ENGINEERING
CIVIL & CONSULTING ENGINEERS
SURVEYORS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS
CORPORATE OFFICE:
◆ WARREN, NJ
OFFICES:
◆ SOUTHBOROUGH, MA ◆ CHALFONT, PA
◆ BOWIE, MD ◆ PHILADELPHIA, PA
◆ TOWSON, MD ◆ STERLING, VA
◆ ALBANY, NY ◆ WARRENTON, VA
◆ RONKONKOMA, NY ◆ FORT LAUDERDALE, FL
◆ CENTER VALLEY, PA ◆ TAMPA, FL

REVISIONS

REV	DATE	COMMENT	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

STOP - CALL BEFORE YOU DIG!

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.
(MA, ME, NH, RI, VT 1-888-344-7233)
(CT 1-800-922-4455)
(NY 1-800-962-7962)

PERMIT
SET

PROJECT No.:	W101085
DRAWN BY:	CFD
CHECKED BY:	SPD
DATE:	08/23/2010
SCALE:	AS NOTED
CAD I.D.:	W101085ss0

PROJECT:

SITE PLAN DOCUMENTS FOR SUNOCO, INC.

LOCATION OF SITE
1707 REVERE BEACH PARKWAY
(ROUTE 16)
CITY OF EVERETT
MIDDLESEX COUNTY, MA

BOHLER ENGINEERING
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
Fax: (508) 480-9080
www.BohlerEngineering.com

S.P. DECOURSEY
PROFESSIONAL ENGINEER
MASSACHUSETTS LICENSE No. 36424
NEW HAMPSHIRE LICENSE No. 9308
MAINE LICENSE No. 8408
VERMONT LICENSE No. 7110
CONNECTICUT LICENSE No. 23862
RHODE ISLAND LICENSE No. 7990

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3 OF 9

REV 0 - 08/23/2010

ATTACHMENT A

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**: Sunoco Service Station		**Facility/site** mailing address:			
Location of **facility/site**: longitude: 71.04 latitude: 42.40	Facility SIC code(s): 5541	Street: 1707 Revere Beach Parkway			
b) Name of **facility/site owner:** Best Petroleum Net Lease, LLC C/O Sunoco, Inc Tax Dept.		Town: Everett			
Email address of facility/site owner:		State: MA	Zip: 02149-5909	County: Middlesex	
Telephone no. of facility/site **owner**: (617) 529-3932					
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: 1735 Market Street, Suite LL					
Town: Philadelphia	State: PA	Zip: 19103	County: Philadelphia		
c) Legal name of **operator**:	**Operator** telephone no: (781) 793-0074				
EnviroTrac Ltd.	**Operator** fax no.: (781) 793-7877	**Operator** email: patrickc@envirotrac.com			
Operator contact name and title: Patrick D. Corcoran, LSP					
Address of **operator** (if different from owner):	Street: 2 Merchant Street, Suite 2				
Town: Sharon	State: MA	Zip: 02067	County: Norfolk		

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 #: 03/08/2007; Authorization #910296
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.

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 ☐

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Approx. 30 gpm of groundwater will be pumped into a weir-style roll off, a fractionation tank, bag filters, two 1,000-pound liquid phase carbon units, and two cation exchange resin units arranged in series. The effluent will be discharged to a catch basin that ultimately discharges to Island End River.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow: 0.111 Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units) 0.067 Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 42.40 long. 71.04 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): N/A

5) Is the discharge intermittent ◉ or seasonal ○?
Is discharge ongoing? Y ○ N ◉

c) Expected dates of discharge (mm/dd/yy): start September 2011 end October 2011

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). See attached figure.

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	160.2	4000	41,000	1.12E+01	41,000	6.7E+0
2. Total Residual Chlorine (TRC)		☐	☒	1	Grab	330.4	50	130	3.55E-02	130	2.13E-2
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	Grab	VPH	100	0	0	0	0
4. Cyanide (CN)	57125	☒	☐	1	Grab	335.4	10	0	0	0	0
5. Benzene (B)	71432	☒	☐	1	Grab	8260B	0.50	0	0	0	
6. Toluene (T)	108883	☒	☐	1	Grab	8260B	1.0	0	0	0	0
7. Ethylbenzene (E)	100414	☒	☐	1	Grab	8260B	1.0	0	0	0	0
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	Grab	8260B	2.0	0	0	0	0
9. Total BTEX [2]	n/a	☒	☐	1	Grab	8260B	N/A	0	0	0	0
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Grab	504	0.017	0	0	0	0
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	Grab	8260B	1.0	0	0	0	0
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	Grab	8260B	100	0	0	0	0

***** 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	8260B	2.0	0	0	0	0
14. Naphthalene	91203	☒	☐	1	Grab	8260B	5.0	0	0	0	
15. Carbon Tetrachloride	56235	☒	☐	1	Grab	8260B	1.0	0	0	0	0
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Grab	8260B	1.0	0	0	0	0
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Grab	8260B	1.0	0	0	0	0
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Grab	8260B	1.0	0	0	0	0
18a. Total dichlorobenzene		☒	☐	1	Grab	8260B	1.0	0	0	0	0
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	Grab	8260B	1.0	0	0	0	0
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Grab	8260B	1.0	0	0	0	0
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	Grab	8260B	1.0	0	0	0	0
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	Grab	8260B	1.0	0	0	0	0
23. Methylene Chloride	75092	☒	☐	1	Grab	8260B	2.0	0	0	0	0
24. Tetrachloroethene (PCE)	127184	☒	☐	1	Grab	8260B	1.0	0	0	0	0
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	Grab	8260B	1.0	0	0	0	0
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Grab	8260B	1.0	0	0	0	0
27. Trichloroethene (TCE)	79016	☒	☐	1	Grab	8260B	1.0	0	0	0	0

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	8260B	1.0	0	0	0	0
29. Acetone	67641	☒	☐	1	Grab	8260B	5.0	0	0	0	0
30. 1,4 Dioxane	123911	☒	☐	1	Grab	8260B	25	0	0	0	0
31. Total Phenols	108952	☒	☐	1	Grab	8270C	5.6	0	0	0	0
32. Pentachlorophenol (PCP)	87865	☒	☐	1	Grab	8270C	11	0	0	0	0
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	Grab	8270C	N/A	0	0	0	0
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	Grab	8270C	2.2	0	0	0	0
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Grab	8270C	N/A	0	0	0	0
a. Benzo(a) Anthracene	56553	☒	☐	1	Grab	8270C	5.3	0	0	0	0
b. Benzo(a) Pyrene	50328	☒	☐	1	Grab	8270C	5.3	0	0	0	0
c. Benzo(b)Fluoranthene	205992	☒	☐	1	Grab	8270C	5.3	0	0	0	0
d. Benzo(k)Fluoranthene	207089	☒	☐	1	Grab	8270C	5.3	0	0	0	0
e. Chrysene	21801	☒	☐	1	Grab	8270C	5.3	0	0	0	0
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	Grab	8270C	5.3	0	0	0	0
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	Grab	8270C	5.3	0	0	0	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Grab	8270C	5.3	0	0	0	0

[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	8270C	5.3	0	0	0	0
i. Acenaphthylene	208968	☒	☐	1	Grab	8270C	5.3	0	0	0	0
j. Anthracene	120127	☒	☐	1	Grab	8270C	5.3	0	0	0	0
k. Benzo(ghi) Perylene	191242	☒	☐	1	Grab	8270C	5.3	0	0	0	0
l. Fluoranthene	206440	☒	☐	1	Grab	8270C	5.3	0	0	0	0
m. Fluorene	86737	☒	☐	1	Grab	8270C	5.3	0	0	0	0
n. Naphthalene	91203	☒	☐	1	Grab	8270C	5.3	0	0	0	0
o. Phenanthrene	85018	☒	☐	1	Grab	8270C	5.3	0	0	0	0
p. Pyrene	129000	☒	☐	1		8270C	5.3	0	0	0	0
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	Grab	8082	290	0	0	0	0
38. Chloride	16887006	☐	☒	1	Grab	SM21 4500 CL C	200	155,000	4.23E+01	155,000	2.54E+1
39. Antimony	7440360	☒	☐	1	Grab	6010B	6.0	0	0	0	0
40. Arsenic	7440382	☒	☐	1	Grab	6010B	4.0	0	0	0	0
41. Cadmium	7440439	☒	☐	1	Grab	6010B	4.0	0	0	0	0
42. Chromium III (trivalent)	16065831	☒	☐	1	Grab	6010B	10	0	0	0	0
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Grab	7196A	10	0	0	0	0
44. Copper	7440508	☐	☒	1	Grab	6010B	25	26.8	7.31E-03	26.8	4.39E-03
45. Lead	7439921	☐	☒	1	Grab	6010B	5.0	33.7	9.20E-03	33.7	5.52E-03
46. Mercury	7439976	☒	☐	1	Grab	SW7470A	0.20	0	0	0	0
47. Nickel	7440020	☒	☐	1	Grab	6010B	40	0	0	0	0
48. Selenium	7782492	☒	☐	1	Grab	6010B	10	0	0	0	0
49. Silver	7440224	☒	☐	1	Grab	6010B	5.0	0	0	0	0
50. Zinc	7440666	☐	☒	1	Grab	6010B	20	254	6.93E-02	254	4.16E-02
51. Iron	7439896	☐	☒	1	Grab	6010B	100	2,220	6.06E-01	2,220	3.64E-01
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)
		☐	☐								
		☐	☐								

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? Pb, Zn, and Cu
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: Lead DF: 40 Metal: Zinc DF: 40 Metal: Copper DF: 40 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: Pb

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:

Approx. 30 gpm of groundwater will be pumped into a weir style roll-off, a fractionation tank, bag filters, a cartridge filter, and two 1,000-pound liquid phase carbon units arranged in series, and two cation exchange resin units exchanged in series. See attached process flow diagram.

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):	weir-style roll off and cation exchange resin units		

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

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

A polymer (consisting of Flocculant and Gel-Floc) will be added prior to water being pumped into the weir-style roll off. The polymer will be added as a coagulant to aid in metals removal. Product names are StormKlear DBP-2100 FS and StormKlear Gel-Floc, MSDS sheets for both products are attached to this permit application.

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:

Treated water will be discharged to a storm drain at the facility. Storm drain system along Revere Beach Parkway discharges to Island End River.

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 Class 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. Not Applicable (salt water)

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ◉ N ○ If yes, for which pollutant(s)? See below

Is there a final TMDL? Y ○ N ◉ If yes, for which pollutant(s)?

5.f. 303(d) pollutants: Metals (other than mercury); oil and grease; organic enrichment/low D.O.; other organics; pathogens; priority organics; taste, color, and odor; and unionized ammonia.

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:	Sunoco Everett, 1707 Revere Beach Parkway, Everett, MA
Operator signature:	
Printed Name & Title:	Patrick D. Corcoran, LSP; Senior Project Manager
Date:	08/30/2011

Remediation General Permit – Notice of Intent
Maximum Daily Value and Dilution Factor Calculations

Maximum Daily Value

To calculate the maximum daily value in kilograms of each parameter believed to be present the following formula was used:

0.072 MGD * concentration of parameter in mg/L * 8.34 = kg

Example:

Total Suspended Solids:

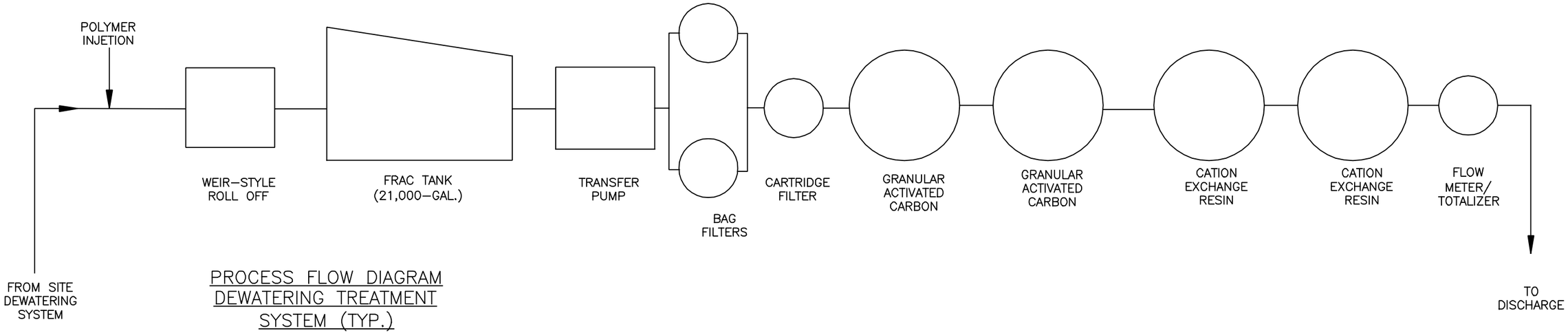
0.072 MGD * 41mg/L * 8.34 = 1.12E+01 kg

7Q10

7Q10: 4.34 cfs

According to EPA (http://www.epa.gov/region1/npdes/nccwgp/Attachment-MA7Q10.pdf) 7Q10 for the Mystic River at the MTBA Station in Everett, MA is 2.8 MGD.

ATTACHMENT B



PROCESS FLOW DIAGRAM
DEWATERING TREATMENT
SYSTEM (TYP.)

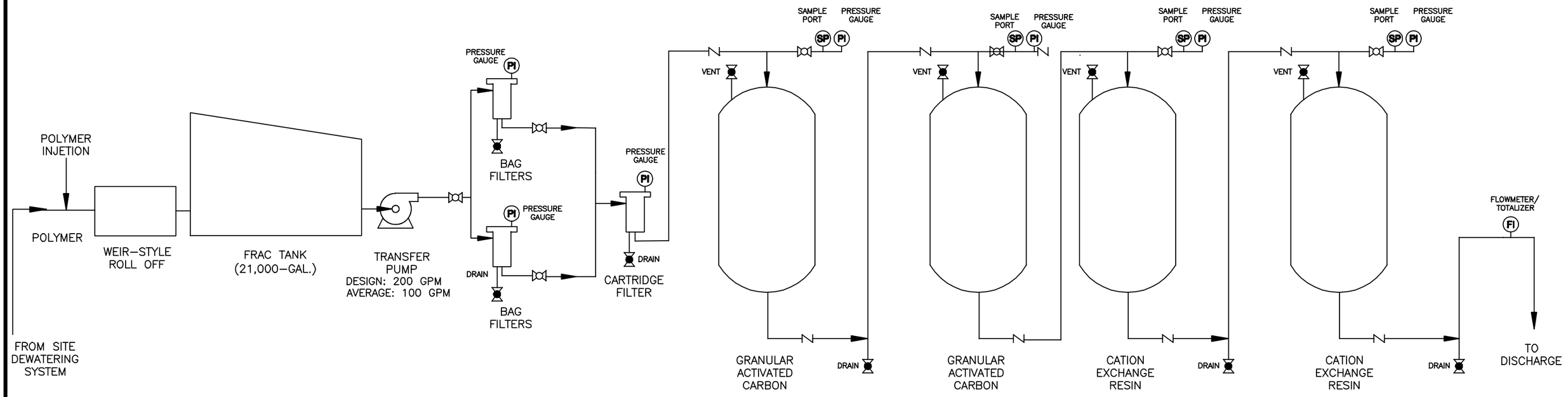


FIGURE # 3	PROCESS FLOW DIAGRAM		SUNOCO SERVICE STATION 1707 REVERE BEACH PARKWAY EVERETT, MASSACHUSETTS
	CREATED BY: PDC DATE: 02/29/08	NOT TO SCALE	REVISED BY: RP DATE: 08/23/2011

EnviroTrac
2 Merchant Street, Suite 2, Sharon, Massachusetts
PHONE: (781) 793–0074 FAX: (781) 793–7877

ATTACHMENT C

New England ACCUTEST LABORATORIES

08/09/11

Technical Report for

EnviroTrac

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA

SUNOCO EVERETT

Accutest Job Number: MC2119R

Sampling Date: 07/22/11

Report to:

EnviroTrac

RachelP@envirotrac.com

ATTN: Rachel Patenaude

Total number of pages in report: **12**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

-1-

Sample Summary

EnviroTrac

Job No: MC2119R

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA
Project No: SUNOCO EVERETT

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC2119-1R	07/22/11	09:30	SSL	07/22/11	AQ	Ground Water	OW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	EnviroTrac	**Job No**	MC2119R
Site:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	**Report Date**	8/4/2011 11:51:42 AM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 07/22/2011 and were received at Accutest on 07/22/2011 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of MC2119R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25664

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD for Blank Spike Duplicate, Blank Spike Recovery(s) for Acenaphthylene are outside control limits. Blank Spike meets program technical requirements.
- OP25664-BSD for several compounds: Outside control limits. Individual spike recoveries within acceptance limits.
- Only PAHs requested.

Wet Chemistry By Method EPA 1664

Matrix AQ **Batch ID:** GP13308

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC2119R).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1R	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U969.D	1	07/27/11	KR	07/27/11	OP25664	MSU55
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	58%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1R	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
		Percent Solids:	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil And Grease	< 4.1	4.1	mg/l	1	08/03/11	BF	EPA 1664

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form

Parameter Certifications

Job Number: MC2119R
Account: ENVTRAC EnviroTrac
Project: Sunoco Everett 1707 Revere beach Pkwy. Everett, MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
HEM Oil And Grease		**EPA 1664**	AQ	Accutest is certified for this parameter.

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC2119R

Client / Reporting Information

Company Name: ENVIROTRAC, LTD.
Street Address: 2 MERCHANT ST.
City State Zip: SHARON MA 02067
Project Contact E-mail: STEVE LESPERANCE - stephen@envirotrac.com
Phone # Fax #: 1-508-400-6731
Sampler(s) Name(s) Phone #: STEVE LESPERANCE

Project Information

Project Name: SUNOCO EVERETT
Street: 1707 REVERE BEACH PKWY
City: EVERETT, MA
Project#:
Client PO#:
Project Manager: S. LESPERANCE

Billing Information (If different from Report to)

Company Name: SAME
Street Address:
City: BILL ET DIRECT State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfite	TSS	TBA	TAME	TOTAL METALS @	Cr (III)	Cr (VI)	CN	VOCs By 8260	CHLORIDE	TOTAL RESIDUAL CHLORINE
-1F	MW-1		7/27/11	0930	SJL	GW	10	3	1	1		5					X	X	X	X	X	X	X	X	X	X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

LAB USE ONLY: 1A, 5A, CPM4

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [x] 3 Day *EMERGENCY* RUSH
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date: JV 7/30/11

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [x] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

RGP PERMIT ANALYSIS REQUIRED - MUST MEET APPLICABLE DETECTION LIMITS
① FIELD FILTERED

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	7/27/11 1115	1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp
5		5	[ ] Intact [ ] Not Intact	[ ]	[x]	2.8°C

MC2119R: Chain of Custody
Page 1 of 2

Jeremy Vienneau

From: Stephen Lesperance [stephenl@envirotrac.com]
Sent: Monday, August 01, 2011 4:38 PM
To: Jeremy Vienneau
Subject: MC1969 and MC2119 Marshfield and Everett

Jeremy, please run oil and grease and PAH's for the two above mentioned RGP groundwater data sets. I authorize you to preserve the non-preserved samples you have on hand in order to run oil and grease...

Thanks,
Steve

Stephen Lesperance | Project Manager | EnviroTrac Ltd. | 2 Merchant Street Suite 2, Sharon MA 02067
781.793.0074(office) | 81.793.7877(fax) | 508.400.6731(cell) | stepheni@envirotrac.com

Solutions in Action - http://www.envirotrac.com

EnviroTrac
Think before you print

8/1/2011

MC2119R: Chain of Custody
Page 2 of 2

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

4.3 4

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	MC2119R
Project Location:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC2119-1R

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals ( ) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☑ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

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

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

Signature: _____ **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **08/04/2011**

New England ACCUTEST LABORATORIES

07/28/11

Technical Report for

EnviroTrac

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA

SUNOCO EVERETT

Accutest Job Number: MC2119

Sampling Date: 07/22/11

Report to:

EnviroTrac

patrickc@envirotrac.com

ATTN: Patrick Corcoran

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Sections: 1 2 3 4

Table of Contents

Sample Summary

EnviroTrac

Job No: MC2119

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA
Project No: SUNOCO EVERETT

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC2119-1	07/22/11	09:30	SSL	07/22/11	AQ	Ground Water	OW-1
MC2119-1F	07/22/11	09:30	SSL	07/22/11	AQ	Groundwater Filtered	OW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	EnviroTrac	**Job No**	MC2119
Site:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	**Report Date**	7/28/2011 9:48:20 AM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 07/22/2011 and were received at Accutest on 07/22/2011 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of MC2119. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSM1352

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Duplicate Recovery(s) for 1,1,1,2-Tetrachloroethane, 2,2-Dichloropropane are outside control limits. Blank Spike meets program technical requirements.
- Blank Spike Recovery(s) for 1,1,1,2-Tetrachloroethane, 2,2-Dichloropropane, Isopropylbenzene are outside control limits. Blank Spike meets program technical requirements.
- Continuing calibration check standard MSM1352-CC1308 for acetone, 2,2-dichloropropane, 1,1,1,2-tetrachloroethane exceed 20% Difference. This check standard met MCP criteria.
- Check standard MSM1352-CC1308 utilized the same file as MSM1351-CC1307.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP25664

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only selected compounds requested.
- MC2119-1: Confirmation run for surrogate recoveries.
- OP25664-BS, RPD for OP25664-BSD for 2,4-Dinitrophenol: Outside control limits. Blank Spike meets program technical requirements.
- OP25664-BS/BSD, RPD(s) for OP25664-BSD for Phenol, Dimethyl phthalate, 4-Nitrophenol: Outside control limits. Blank Spike meets program technical requirements.
- RPD(s) for OP25664-BSD for several compounds: Outside control limits. Individual spike recoveries within acceptance limits.
- MC2119-1 for Phenol-d5: Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Metals By Method EPA 200.7

Matrix	AQ	Batch ID:	MP17421

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC2119-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Cadmium, Copper, Lead, Nickel are outside control limits for sample MP17421-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Matrix	AQ	Batch ID:	MP17427

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC2119-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium are outside control limits for sample MP17427-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method EPA 245.1

Matrix	AQ	Batch ID:	MP17416

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method 6010/7196A M/200.7

Matrix	AQ	Batch ID:	R28956

- MC2119-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method EPA 335.4

Matrix	AQ	Batch ID:	GP13277

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM21 2540D

Matrix	AQ	Batch ID:	GN35605

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM21 4500CL C

Matrix	AQ	Batch ID:	GN35585

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM21 4500CL F

Matrix	AQ	Batch ID:	GN35593

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 7196A

Matrix	AQ	Batch ID:	GN35591

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC2119).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M42519.D	1	07/26/11	TD	n/a	n/a	MSM1352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	20	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U969.D	1	07/27/11	KR	07/26/11	OP25664	MSU55
Run #2 [a]	U976.D	1	07/27/11	KR	07/26/11	OP25664	MSU55

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
87-65-0	2,6-Dichlorophenol	ND	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	10	ug/l	
106-44-5	4-Methylphenol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%	23%	15-110%
4165-62-2	Phenol-d5	14% [b]	14% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	64%	65%	15-110%
4165-60-0	Nitrobenzene-d5	58%	57%	30-130%
321-60-8	2-Fluorobiphenyl	60%	62%	30-130%
1718-51-0	Terphenyl-d14	58%	58%	30-130%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
		Percent Solids:	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Chromium	< 10	10	ug/l	1	07/27/11	07/27/11	DA	EPA 200.7 [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA13209
(2) Prep QC Batch: MP17427

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1	**Date Sampled:**	07/22/11
Matrix:	AQ - Ground Water	**Date Received:**	07/22/11
		Percent Solids:	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	155	10	mg/l	10	07/22/11	CF	SM21 4500CL C
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/22/11 17:45	SA	SW846 7196A
Chromium, Trivalent [a]	< 0.020	0.020	mg/l	1	07/27/11 15:26	DA	6010/7196A M/200.7
Cyanide	< 0.010	0.010	mg/l	1	07/26/11 13:07	MA	EPA 335.4
Solids, Total Suspended	41.0	4.0	mg/l	1	07/26/11	BF	SM21 2540D
Total Residual Chlorine	0.13	0.050	mg/l	1	07/22/11 17:40	CF	SM21 4500CL F

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2119-1F	**Date Sampled:**	07/22/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/22/11
		Percent Solids:	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	< 4.0	4.0	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	< 4.0	4.0	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Copper	< 25	25	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Iron	288	100	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Lead	< 5.0	5.0	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	< 0.20	0.20	ug/l	1	07/23/11	07/25/11	MA	EPA 245.1 [1]	EPA 245.1 [3]
Nickel	< 40	40	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	< 10	10	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Silver	< 5.0	5.0	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	254	20	ug/l	1	07/25/11	07/27/11	DA	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA13197
(2) Instrument QC Batch: MA13209
(3) Prep QC Batch: MP17416
(4) Prep QC Batch: MP17421

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form

Parameter Certifications

Job Number: MC2119
Account: ENVTRAC EnviroTrac
Project: Sunoco Everett 1707 Revere beach Pkwy. Everett, MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Antimony	7440-36-0	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Arsenic	7440-38-2	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Cadmium	7440-43-9	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Chromium	7440-47-3	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Copper	7440-50-8	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Iron	7439-89-6	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Lead	7439-92-1	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Mercury	7439-97-6	**EPA 245.1**	AQ	Accutest is certified for this parameter.
Nickel	7440-02-0	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Selenium	7782-49-2	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Silver	7440-22-4	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Zinc	7440-66-6	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Chloride	16887-00-6	**SM21 4500CL C**	AQ	Accutest is certified for this parameter.
Cyanide	57-12-5	**EPA 335.4**	AQ	Accutest is certified for this parameter.
Solids, Total Suspended		**SM21 2540D**	AQ	Accutest is certified for this parameter.
Total Residual Chlorine		**SM21 4500CL F**	AQ	Accutest is certified for this parameter.

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC2119

Client / Reporting Information

Company Name: ENVIROTRAC, LTD.
Street Address: 2 MERCHANT ST.
City: SHARON State: MA Zip: 02067
Project Contact: STEVE LESPERANCE E-mail: Stephen@envirotrac.com
Phone #: 1-508-400-6731 Fax #:
Sampler(s) Name(s): STEVE LESPERANCE Phone #:

Project Information

Project Name: SUNOCO EVERETT
Street: 1707 REVERE BEACH Pkwy
City: EVERETT, MA
Project#:
Client PO#:
Project Manager: S. LESPERANCE

Billing Information (If different from Report to)

Company Name: SAME
Street Address: BILL ET DIRECT
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	TSS	TBA	TAME	TOTAL METALS @	Cr (III)	Cr (VI)	CN	VOCs By 8260	CHLORIDE	TOTAL RESIDUAL CHLORIDE	LAB USE ONLY
-1F	OW-1		7/27/11	0930	SSL	GW	10	3		1	1	5					X	X	X	X	X	X	X	X	X	X	1A, 5A, CPM4

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [x] 3 Day ~~EMERGENCY~~ RUSH
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA

Approved By (Accutest PM): / Date: JV 7/28/11

RUSH!

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [x] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

RGP PERMIT ANALYSIS REQUIRED - MUST MEET APPLICABLE DETECTION LIMITS

① FIELD FILTERED

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	7/27/11 1115	1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice	Cooler Temp
5		5					2.8°C

4.2 4

MC2119: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC2119 **Client:** ENVIROTRAC **Immediate Client Services Action Required:** No

Date / Time Received: 7/22/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: SUNOCO EVERETT **No. Coolers:** 1 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC2119: Chain of Custody
Page 2 of 2

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	MC2119
Project Location:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC2119-1,MC2119-1F

Test method: Refer to case narrative.

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC (X) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☑ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☐ Yes	☑ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

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

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

Signature: _____ **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **07/28/2011**

New England ACCUTEST LABORATORIES

08/05/11

Technical Report for

EnviroTrac

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA

SUNOCO EVERETT

Accutest Job Number: MC2385

Sampling Date: 07/28/11

Report to:

EnviroTrac

patrickc@envirotrac.com

ATTN: Patrick Corcoran

Total number of pages in report: **10**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

Sample Summary

EnviroTrac

Job No: MC2385

Sunoco Everett 1707 Revere beach Pkwy. Everett, MA
Project No: SUNOCO EVERETT

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC2385-1	07/28/11	12:30	SL	08/02/11	AQ	Ground Water	OW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	EnviroTrac	**Job No**	MC2385
Site:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	**Report Date**	8/5/2011 2:07:04 PM

1 Sample(s) was collected on 07/28/2011 and was received at Accutest on 08/02/2011 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of MC2385. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix AQ **Batch ID:** MP17473

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC2366-8FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Nickel are outside control limits for sample MP17473-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ **Batch ID:** MP17476

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC2385).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OW-1		
Lab Sample ID:	MC2385-1	**Date Sampled:**	07/28/11
Matrix:	AQ - Ground Water	**Date Received:**	08/02/11
		Percent Solids:	n/a
Project:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Arsenic	< 4.0	4.0	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Copper	26.8	25	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Iron	2220	100	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Lead	33.7	5.0	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/03/11	08/03/11	MA	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 40	40	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]
Zinc	186	20	ug/l	1	08/03/11	08/04/11	PY	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA13232
(2) Instrument QC Batch: MA13236
(3) Prep QC Batch: MP17473
(4) Prep QC Batch: MP17476

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC2385

Client / Reporting Information

Company Name: ENVIROTRAC, LTD
Street Address: 2 MERCHANT ST
City: SHARON, MA 02067
Project Contact: STEVE LESPERANCE
E-mail: StephenL@envirotrac.com
Phone #: 1-508-400-6731
Fax #:
Sampler(s) Name(s): STEVE LESPERANCE
Phone #:

Project Information

Project Name: SUNOCO EVERETT
Street: 1707 REVERE BCH PKWY
City: EVERETT, MA
Project#:
Client PO#:
Project Manager: S. LESPERANCE

Billing Information (If different from Report to)

Company Name:
Street Address: BILL ET DIRECT
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MeOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfite	TOTAL METALS (1)	LAB USE ONLY
-1	OW-1		7/28/11	1230	SL	GW	2			X							X	
																		SD

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [X] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labline

RUSH!

Approved By (Accutest PM): / Date: JV 7/29/11

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [X] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

(1) UNFILTERED - DO NOT FILTER @ LAB

*SAMPLE IS FOR RGP PERMIT - MUST MEET APPLICABLE DETECTION LIMITS

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	ET	7/28/11 1345	ET SECURE FRIDGE			
2					8-3-11	
3		8-2-11				
4						
5						

Custody Seal #: | [ ] Intact [ ] Not intact | Preserved where applicable: [ ] | On Ice: X | Cooler Temp: 2.0°C

MC2385: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC2385 **Client:** ENVIROTRAC **Immediate Client Services Action Required:** No

Date / Time Received: 8/2/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: SUNOCO EVERETT **No. Coolers:** 1 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC2385: Chain of Custody
Page 2 of 2

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	MC2385
Project Location:	Sunoco Everett 1707 Revere beach Pkwy. Everett, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC2385-1

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg (X) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☑ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

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

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

Signature: [signature] **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **08/05/2011**

ATTACHMENT D

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National Park Service
U.S. Department of the Interior

National Register of Historic Places

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Ace Art Company *[Image]*	6%
Acton Centre Historic District *[Image]*	6%
Adams, Amos, House *[Image]*	6%
Adams, Charles--Woodbury Locke House *[Image]*	6%
Adams, Seth, House *[Image]*	6%
Adams--Magoun House *[Image]*	6%
Agudas Achim Anshei Sfard Synagogue *[Image]*	6%
Albree-Hall-Lawrence House *[Image]*	6%
Alewife Brook Parkway *[Image]*	6%
Allen House *[Image]*	6%
Allen, Abel, House *[Image]*	6%
Allen, Nathaniel Topliff, Homestead *[Image]*	6%

Prev | 1 2 3 4 5 6 7 8 9 10 | Next

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Massachusetts Cultural Resource Information System
MACRIS

MACRIS Search Results

Search Criteria: Town(s): Everett; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
EVR.A	Liberty Street Area		Everett	
EVR.B	Pleasant View - Villa - Arlington Streets Area		Everett	
EVR.C	Mount Washington		Everett	
EVR.D	Everett Square		Everett	
EVR.E	Everett - Prescott Streets Area		Everett	
EVR.F	Chestnut Streetscape		Everett	
EVR.G	Waverly Streetscape		Everett	
EVR.H	Sherman - Gilmore Streets Area		Everett	
EVR.I	Metropolitan Park System of Greater Boston		Everett	
EVR.J	Hampshire Streetscape		Everett	
EVR.K	Hendersonville		Everett	
EVR.L	Thurman Park		Everett	
EVR.M	Belmont Streetscape		Everett	
EVR.N	Ferry Streetscape		Everett	
EVR.O	Dartmouth Streetscape		Everett	
EVR.P	Cleveland Streetscape		Everett	
EVR.Q	Glendale Streetscape		Everett	
EVR.R	Vernal Streetscape		Everett	
EVR.S	Reynolds Avenue Streetscape		Everett	
EVR.T	Porter Streetscape		Everett	
EVR.U	Broadway - Charlton Street Industrial Area		Everett	
EVR.V	General Electric Company Foundry		Everett	
EVR.W	New England Oil, Paint and Varnish Company		Everett	
EVR.X	Paris - Garvey - Springs Streets Industrial Area		Everett	
EVR.Y	Saint Therese Roman Catholic Church Complex		Everett	
EVR.Z	Metropolitan Park System of Greater Boston		Everett	
EVR.AA	Revere Beach Parkway		Everett	

Inv. No.	Property Name	Street	Town	Year
EVR.167	Porter, H. K. and Sons Battery Clippers Factory	6 Ashland St	Everett	1900
EVR.190	Colonial Beacon Oil Refinery Business Office	30 Beacham St	Everett	1926
EVR.44	Wood House	40 Beacon St	Everett	1885
EVR.45	Berghurst, Olaf House	143 Bell Rock St	Everett	1886
EVR.47	Northway, Luther E. House	127 Belmont St	Everett	1880
EVR.48	Blake, Thomas Proctor House	135-137 Belmont St	Everett	1880
EVR.49	Gramsdorf House	145 Belmont St	Everett	1875
EVR.50	Bonn, Blanchard J. House	51 Birch St	Everett	1911
EVR.170	Boston Varnish Company	Boston St	Everett	1900
EVR.171	Carpenter - Morton Varnish Company	Boston St	Everett	1909
EVR.176	Edmester, Lemuel House	199 Bow St	Everett	1835
EVR.51		145 Bradford St	Everett	1888
EVR.52		153 Bradford St	Everett	1885
EVR.1	Central Fire Station	Broadway	Everett	1908
EVR.19	Immaculate Conception Catholic Church	Broadway	Everett	1896
EVR.62	Everett High School	Broadway	Everett	1922
EVR.64	Parlin, Albert J. Junior High School	Broadway	Everett	1915
EVR.177	Glendale Baptist Church	Broadway	Everett	1892
EVR.180	Boston Elevated Railway Yard - Power Station	Broadway	Everett	1925
EVR.902	Wehner Park	Broadway	Everett	1919
EVR.178	Boston Elevated Railway Yard - Metal Shop	80 Broadway	Everett	1939
EVR.179	Boston Elevated Railway Yard - Bus Repair Facility	80 Broadway	Everett	1924
EVR.181	Boston Elevated Railway Yard - Carpentry Shop	80 Broadway	Everett	1923
EVR.173	Everett Station Garage	145 Broadway	Everett	1924
EVR.192	Everett Cycle Co. - Donovan, James Shoe Co.	210 Broadway	Everett	1895
EVR.193	Donovan, James Shoe Company Engine House	210 Broadway	Everett	1903
EVR.194	Everett Factories - EFTC #2 Loft	210 Broadway	Everett	1916
EVR.195	Everett Factories - EFTC #3 Loft	210 Broadway	Everett	1919
EVR.196	Everett Factories - EFTC #5 Loft	210 Broadway	Everett	1951
EVR.53	Bogue, John House	306 Broadway	Everett	1830
EVR.54	Stimpson, W. E. House	342 Broadway	Everett	1850
EVR.56	Kittredge, Frederick A. House	365 Broadway	Everett	1888
EVR.57	Police Station, Old	371 Broadway	Everett	1903
EVR.2	United States Post Office - Everett Branch	391 Broadway	Everett	1938
EVR.3	Parlin, Frederick E. Memorial Library	410 Broadway	Everett	1894
EVR.907	Everett Spanish-American Veterans Memorial	410 Broadway	Everett	1927
EVR.6	Everett Co-operative Bank	419 Broadway	Everett	1950

Inv. No.	Property Name	Street	Town	Year
EVR.7	Evans Building	421-425 Broadway	Everett	1896
EVR.8	Whittier, Arthur H. Building	427-429 Broadway	Everett	1899
EVR.9	Everett Trust Company	431-437 Broadway	Everett	1918
EVR.10		432 Broadway	Everett	1926
EVR.11		434-436 Broadway	Everett	1930
EVR.12	Everett Savings Bank	440-442 Broadway	Everett	1885
EVR.13		444-458 Broadway	Everett	1928
EVR.16	Everett Associate Building	445-453 Broadway	Everett	1908
EVR.17	Everett National Bank	457-459 Broadway	Everett	1926
EVR.14	First Congregational Church	460 Broadway	Everett	1852
EVR.15	Everett Savings Bank	466 Broadway	Everett	1930
EVR.18	Howard, Charles W. Building	471 Broadway	Everett	1925
EVR.21	Everett City Hall	484 Broadway	Everett	1960
EVR.20	Immaculate Conception Rectory	489 Broadway	Everett	1904
EVR.58	Smith, Nathan B. House	499-501 Broadway	Everett	1858
EVR.59	Saltmarsh, Goerge A. House	516 Broadway	Everett	1891
EVR.60		523-531 Broadway	Everett	1915
EVR.61	Hotchkiss, Robert E. House	534 Broadway	Everett	1888
EVR.43	Foster, Celden B. Housse	537 Broadway	Everett	1902
EVR.63	Masonic Building	538 Broadway	Everett	1910
EVR.65	Atwood, Hawes House	577 Broadway	Everett	1857
EVR.66	Brandon Apartment House	651 Broadway	Everett	1929
EVR.67	Malden Electric Company Substation	693 Broadway	Everett	1921
EVR.68	Glendale Building	712-722 Broadway	Everett	1898
EVR.69	Shute, William Memorial Library	781 Broadway	Everett	1898
EVR.227	Saint Therese Roman Catholic Church Parish Center	795 Broadway	Everett	1950
EVR.70	Saint Therese Roman Catholic Church	801 Broadway	Everett	1928
EVR.908	Saint Therese of Lisieux Statue	801 Broadway	Everett	1930
EVR.909	Saint Therese Roman Catholic Church Garden Shrine	801 Broadway	Everett	1965
EVR.71	Porter, Ernest House	826 Broadway	Everett	1901
EVR.77	Saint Joseph's Roman Catholic Church	Bucknam St	Everett	1917
EVR.189	Saint Joseph's Roman Catholic Church Rectory	Bucknam St	Everett	1926
EVR.72	Carlisle, George W. House	3 Bucknam St	Everett	1860
EVR.73	Nowers, Alfred W. House	30 Bucknam St	Everett	1860
EVR.74	Averell, Ezekiel House	43 Bucknam St	Everett	1860
EVR.75	Bartlett, Joseph W. House	54 Bucknam St	Everett	1850

Inv. No.	Property Name	Street	Town	Year
EVR.76	Swanson, Philip House	131 Bucknam St	Everett	1910
EVR.78	McDonald, Michael F. House	120 Central Ave	Everett	1845
EVR.206	Clark, W. E. and Company Steel Warehouse	3 Charlton St	Everett	1910
EVR.197	American Hard Paper-Ware Company Factory	7 Charlton St	Everett	1909
EVR.198	Everett Factories - EFTC Shed	7 Charlton St	Everett	1954
EVR.199	American Hard Paper-Ware Company Engine House	7 Charlton St	Everett	1903
EVR.200	American Agricultural Chemical Company Loft	7-41 Charlton St	Everett	1914
EVR.203	New England Bolt Company Machine Shop	9R Charlton St	Everett	1902
EVR.204	New England Bolt Company Warehouse	9R Charlton St	Everett	1953
EVR.205	New England Bolt Company Sheds	9R Charlton St	Everett	1954
EVR.201	American Agricultural Chemical Company Warehouse	31 Charlton St	Everett	1920
EVR.202	Everett Factories - EFTC Machine Shop	31 Charlton St	Everett	1953
EVR.34	Armory	Chelsea St	Everett	1902
EVR.23	Faith, C. B. Furniture Company Building	2-22 Chelsea St	Everett	1927
EVR.22		16-18 Chelsea St	Everett	1890
EVR.24	Young Men's Christian Association	26 Chelsea St	Everett	1888
EVR.25	Crown Theater	30 Chelsea St	Everett	1914
EVR.26	New England Telephone and Telegraph Building	33 Chelsea St	Everett	1925
EVR.36	Melanson Brothers Auto Salesroom	67 Chelsea St	Everett	1925
EVR.35	Edmester, Jonathan House	98 Chelsea St	Everett	1800
EVR.117	Oakes, Capt. Thomas House	71 Chestnut St	Everett	1810
EVR.80	First Baptist Church	Church St	Everett	1928
EVR.79	Prescott House	36 Church St	Everett	1896
EVR.81	Upton, Grafton House	22 Clay Ave	Everett	1898
EVR.83	Corey, Benjamin House	25-27 Corey St	Everett	1885
EVR.84	Daggett, Frederick K. House	43 Corey St	Everett	1845
EVR.39	Henderson Brothers House	78 Cottage St	Everett	1890
EVR.40		118-120 Cottage St	Everett	1890
EVR.168	Sexton Can Company	31 Cross St	Everett	1912
EVR.85	Harvey, Isaac C. House	10 Dartmouth St	Everett	1910
EVR.183	Harvey, Isaac C. House	12 Dartmouth St	Everett	1910
EVR.184	Harvey, Isaac C. House	14 Dartmouth St	Everett	1910
EVR.185	Harvey, Isaac C. House	16 Dartmouth St	Everett	1910
EVR.86	Grant, Horace L. House	25 Dyer Ave	Everett	1885
EVR.87	Dana, Francis W. House	26-28 Dyer Ave	Everett	1885
EVR.800	Woodlawn Cemetery	Elm St	Everett	1852

Inv. No.	Property Name	Street	Town	Year
EVR.903	Glendale Park	Elm St	Everett	1902
EVR.174	Spooner, Joseph House	2 Everett Ave	Everett	1846
EVR.90	Ferry Street Engine House	Ferry St	Everett	1894
EVR.93	Glendale United Methodist Church	Ferry St	Everett	1924
EVR.88	Greenwood, Charles W. House	15 Ferry St	Everett	1883
EVR.182	Greenwood, Frederick P. House	23 Ferry St	Everett	1883
EVR.89	Nichols, Andrew House	137 Ferry St	Everett	1860
EVR.92	Willis, William F. House	314 Ferry St	Everett	1891
EVR.94	Alden House	462 Ferry St	Everett	1830
EVR.95	Green, Jonathan House	519 Ferry St	Everett	1720
EVR.96	Mills, M. Augustus House	535-537 Ferry St	Everett	1860
EVR.97	Murphy, James and William House	102 Florence St	Everett	1891
EVR.98	Lewis, Albert J. Grammar School	Floyd St	Everett	1915
EVR.99	Tibbetts, Charles House	50 Forest Ave	Everett	1878
EVR.100	Woodman, Artemus T. House	58 Forest Ave	Everett	1874
EVR.126	Mann, Horace School	Foster St	Everett	1900
EVR.42	Woodberry, Charles House	39 Fremont Ave	Everett	1868
EVR.41	Temple, W. D. House	74 Garland St	Everett	1870
EVR.220	Market Forge Company Works	35 Garvey St	Everett	1916
EVR.226	Saint Therese Roman Catholic Church Rectory	20 Gledhill Ave	Everett	1920
EVR.103	Hale, Edward Everett School	Glendale St	Everett	1903
EVR.104	Boynton, Charles House	42 Hamilton St	Everett	1882
EVR.108	Chemical Engine House	Hancock St	Everett	1899
EVR.105	Alger, Edwin A. Jr. House	32 Hancock St	Everett	1865
EVR.106	Drysdale, George House	35 Hancock St	Everett	1876
EVR.107	Gleason, Loring W. House	45 Hancock St	Everett	1878
EVR.109	Harley, James House	174-176 Hancock St	Everett	1884
EVR.110	Higgins, Richard S. House	175 Hancock St	Everett	1890
EVR.111	Fernald, Benjamin E. House	193 Hancock St	Everett	1893
EVR.112	Hall, Edwin M. House	11 High St	Everett	1895
EVR.113	Plummer, Nathaniel B. House	38 High St	Everett	1871
EVR.114	Bayliss, Thomas Shop	24 Jefferson Ave	Everett	1915
EVR.115	Knox, Samuel Richardson House	11-13 Knox Pl	Everett	1846
EVR.116		54 Lexington St	Everett	1885
EVR.118	Methodist Episcopal Church	21 Liberty St	Everett	1870
EVR.119	Baldwin, Charles and William House	5-7 Linden St	Everett	1834
EVR.120	Coan, George House	98 Linden St	Everett	1886
EVR.186	Coan, George House	102 Linden St	Everett	1886

Inv. No.	Property Name	Street	Town	Year
EVR.121	Cook, Adam House	128 Linden St	Everett	1880
EVR.122	Goodwin, H. P. House	134 Linden St	Everett	1860
EVR.123	Merriam House	159 Linden St	Everett	1885
EVR.124	Skinner, James House	170 Linden St	Everett	1872
EVR.125	Fiske, Sylvester P. House	198 Linden St	Everett	1870
EVR.142	Dyer, Francis E. House	36 Locust St	Everett	1872
EVR.141	Winslow, Capt. George School	1214 Locust St	Everett	1931
EVR.127	Henderson Block	117-121 Main St	Everett	1891
EVR.128	Sargent, Kilby Commercial Block	125-127 Main St	Everett	1926
EVR.129	Bangs, Charles H. House	219 Main St	Everett	1894
EVR.130	Henderson Commercial Block	242-248 Main St	Everett	1890
EVR.131		277-283 Main St	Everett	1924
EVR.132		285-291 Main St	Everett	1889
EVR.133	Sawtelle, James House	315 Main St	Everett	1890
EVR.134		399-401 Main St	Everett	1911
EVR.135	Mysticside Congregational Church	422 Main St	Everett	1892
EVR.136	Dunmore, Harry - O'Hearn, Patrick House	92-94 Morris St	Everett	1903
EVR.187	Rood, Henry and James House	96-98 Morris St	Everett	1903
EVR.901	Mystic River Railroad Bridge (Milepost #2.22)	Mystic River	Everett	1894
EVR.137	Rich, Capt. Henry House	68 Newton St	Everett	1810
EVR.138	Hamilton, George G. Grammar School	Nichols St	Everett	1915
EVR.140	Lady of Grace Roman Catholic Church	Nichols St	Everett	1917
EVR.188	Lady of Grace Roman Catholic School	Nichols St	Everett	1927
EVR.139	Nichols Apartments	146 Nichols St	Everett	1927
EVR.207	U. S. Steel Castings Company Foundry	Norman St	Everett	1900
EVR.208	U. S. Steel Castings Foundry Engine House	Norman St	Everett	1900
EVR.209	General Electric Company Foundry Shed	Norman St	Everett	1950
EVR.210	U. S. Steel Castings Foundry Pattern Shop	Norman St	Everett	1905
EVR.211	U. S. Steel Castings Foundry Warehouse	Norman St	Everett	1905
EVR.33	First Methodist Episcopal Church	Norwood St	Everett	1892
EVR.27	Enterprise Realty Commercial Block	11-13 Norwood St	Everett	1927
EVR.28	Enterprise Realty Commercial Block	15-17 Norwood St	Everett	1925
EVR.32		24-26 Norwood St	Everett	1924
EVR.29		27 Norwood St	Everett	1948
EVR.30		29-31 Norwood St	Everett	1927
EVR.31		33-37 Norwood St	Everett	1926
EVR.143		42 Norwood St	Everett	1904
EVR.144	Harvard-Yale Apartments	48-50 Norwood St	Everett	1915

Inv. No.	Property Name	Street	Town	Year
EVR.145	Slader, George R. House	49-53 Norwood St	Everett	1870
EVR.146	Norwood Apartment Block	76 Norwood St	Everett	1896
EVR.148		11 Oakland Ave	Everett	1910
EVR.149	Otis, George D. House	16 Otis St	Everett	1870
EVR.217	Eagle Shoe Manufacturing Company Factory	80 Paris St	Everett	1900
EVR.218	Briggs-Maroney Company Paint Factory	85 Paris St	Everett	1913
EVR.219	Briggs-Maroney Company Varnish Factory	85 Paris St	Everett	1921
EVR.216	Moore and Company Shoe Shank Factory	101 Paris St	Everett	1911
EVR.150	Jennings, Charles E. House	38 Pleasant St	Everett	1893
EVR.900	Everett Memorial Stadium	Revere Beach Pkwy	Everett	1929
EVR.904	Woods Memorial Bridge	Revere Beach Pkwy	Everett	1954
EVR.910	Revere Beach Parkway	Revere Beach Pkwy	Everett	1899
EVR.911	Santilli Circle Rotary and Mitres	Revere Beach Pkwy	Everett	1956
EVR.912	Santilli Circle Rotary East Access Ramp	Revere Beach Pkwy	Everett	1956
EVR.913	Poirier, Krystyl K. Memorial Roadway	Revere Beach Pkwy	Everett	1904
EVR.914	Poirier Memorial Roadway Bridge over B&M Railroad	Revere Beach Pkwy	Everett	1904
EVR.915	Revere Beach Parkway Bridge over B & M Railroad	Revere Beach Pkwy	Everett	1954
EVR.916	Sweetser, Gen. Leroy E. Circle and Mitres	Revere Beach Pkwy	Everett	1954
EVR.917	Sweetser, Gen. Leroy E. Overpass (West)	Revere Beach Pkwy	Everett	1956
EVR.918	Sweetser, Gen. Leroy E. Overpass (East)	Revere Beach Pkwy	Everett	1956
EVR.919	Sweetser, Gen. Leroy E. Circle West Access Ramp	Revere Beach Pkwy	Everett	1954
EVR.920	Sweetser, Gen. Leroy E. Circle East Access Ramp	Revere Beach Pkwy	Everett	1954
EVR.921	Revere Beach Parkway Median System	Revere Beach Pkwy	Everett	1899
EVR.221	Market Forge Company Loft	2010 Revere Beach Pkwy	Everett	1913
EVR.191	Leavitt Peanut Butter Company Office and Factory	100 Santilli Hwy	Everett	1958
EVR.153	Stewart, James P. House	64 School St	Everett	1868
EVR.4	Feldman Enterprise Dry Goods Store Building	152 School St	Everett	1938
EVR.5	Whittier, Alvah and Dearborn, Daniel Building	166-172 School St	Everett	1877
EVR.222	Market Forge Company Shed	452 Second St	Everett	1925
EVR.38	South Malden Engine House	537 Second St	Everett	1860
EVR.155	Lafayette School	Shute St	Everett	1898
EVR.101	South District - Glendale Schoolhouse	36-38 Shute St	Everett	1854
EVR.154	Paige House	102 Shute St	Everett	1840
EVR.224	Argo Tile and Pottery Company	103 Spring St	Everett	1915

Inv. No.	Property Name	Street	Town	Year
EVR.223	Stone and Forsyth Paper and Cordage Company	109 Spring St	Everett	1913
EVR.157	Immaculate Conception Catholic School	Summer St	Everett	1922
EVR.159	Everett Vocational High School	Summer St	Everett	1892
EVR.156	Coolidge Manor	16-26 Summer St	Everett	1925
EVR.175	Home School	51 Summer St	Everett	1888
EVR.158	Dennis, William A. House	58 Summer St	Everett	1898
EVR.172	Electric Company Substation #10	37 Thorndike St	Everett	1928
EVR.906	B & M Railroad Bridge #3.24 - Saugus Branch	Tileston St	Everett	1927
EVR.160		9 Valley St	Everett	1898
EVR.162	Moran, Thomas House	3 Vine St	Everett	1896
EVR.801	Glendale Cemetery - Glenwood Cemetery	Washington Ave	Everett	1890
EVR.212	New England Oil, Paint and Varnish Company Factory	59 Waters Ave	Everett	1913
EVR.213	Dupont De Demours, E. I. Company East Shed	59 Waters Ave	Everett	1950
EVR.214	Dupont De Demours, E. I. Company West Sheds	59 Waters Ave	Everett	1950
EVR.215	Dupont De Demours, E. I. Company New West Wing	59 Waters Ave	Everett	1955
EVR.225	New England Oil, Paint and Varnish Company Office	59 Waters Ave	Everett	1913
EVR.163	Cannell, Samuel P. House	23 Webster St	Everett	1887
EVR.169	Fash, Reuben Ice Cream Complex	15 Williams St	Everett	1912
EVR.164	Hobbs, Clinton E. House	55 Winthrop St	Everett	1910
EVR.37		27 Wolcott St	Everett	1923
EVR.165	Smith, Samuel A. House	11 Woodlawn St	Everett	1883
EVR.166	Smith, Samuel A. House	34-36 Woodlawn St	Everett	1880

ATTACHMENT E

Date: 2/1/2010
Revision: 01

Material Safety Data Sheet

StormKlear: DBP-2100 FS

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**StormKlear: DBP-2100 FS**
Synonyms:	Poly X Socks
Chemical Name:	Proprietary
Chemical Formula:	Proprietary
CAS No.:	Proprietary
EPA Registration #:	Not applicable
Product Use:	Flocculant

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	*Trade Secret*	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Off-white to tan, odorless powder.

May cause irritation to eyes and respiratory tract. May cause drying or chapping or skin.

WARNING! Can contain sufficient fines to cause a combustible dust explosion. Product will burn when in contact with a flame. See Section 5 Fire Fighting Measures for more information.

POTENTIAL HEALTH EFFECTS

EYE: Dry powder may cause foreign body irritation in some individuals.

SKIN: Prolonged contact with the dry powder may cause drying or chapping.

INHALATION: Hygroscopic properties of the product can form a paste or gel in the airway. Inhalation of dust may cause respiratory tract irritation. Excessive inhalation of dust may cause coughing and sneezing.

INGESTION: Not toxic if swallowed (less than a mouthful) based on available information.

CHRONIC EXPOSURE/CARCINOGENICITY: None of the components present in this material at concentrations of equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: Contains no substances known to be hazardous to the environment.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

SKIN CONTACT: Cleansing the skin after exposure is advisable.

INHALATION: If large amounts are inhaled, remove to fresh air and consult a physician.

INGESTION: Consult a physician if necessary.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
AUTOIGNITION TEMPERATURE: Not available
UPPER FLAMMABLE LIMIT: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Combustible dust which can contain sufficient fines to cause a combustible dust explosion.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

EXTINGUISHING MEDIA: Water, dry chemical, carbon dioxide.

PROTECTION OF FIREFIGHTERS: Treat as a “Class A” fire. Product will burn when in contact with a flame. Self extinguishers when ignition source is removed. Tends to smolder. As in any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: None known.

METHODS FOR CLEANING UP: Wet material on walking surfaces will be extremely slipper. Avoid dust formation. Use equipment designed specifically for combustible dust. Take precautionary measures against static discharges.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed.

FIRE PREVENTION: Product may form combustible dust-air mixtures. Keep away from heat, flames, sparks, and other ignition sources. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

SPECIAL HANDLING REQUIREMENTS: Remove material from eyes, skin and clothing.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: No special containment needed.

STORAGE ROOM RECOMMENDATIONS: Store in a cool, dry, well-ventilated area away from direct heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimizes skin contamination by following good industrial practice.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS			
INGREDIENT	OSHA	WISHA	ACGIH (TLV)

CAS NO.	TWA	STEL	TWA	STEL	TWA	STEL
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off white to tan
PHYSICAL FORM: Solid, powder
pH: Approximately neutral (1% solution)
VAPOR DENSITY: Not known
MELTING POINT: Not known
SOLUBILITY IN WATER: Fully soluble
SHAPE: Powder
ODOR: Odorless
VAPOR PRESSURE: Not known
BOILING POINT: Not known
FREEZING POINT: Not known
SPECIFIC GRAVITY OR DENSITY: Not known

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Avoid dust formation

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (rat): >5,000 mg/kg

DERMAL LD_{50} (rabbit): Not available

DERMAL LD_{50} (rat): Not available

SKIN IRRITATION: Non-irritating (rabbit)

EYE IRRITATION: Non-irritating (rabbit)

SKIN SENSITIZATION: No skin allergy observed in gui8nea pig following repeated skin exposure

ADDITIONAL INFORMATION: The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Due to the hygroscopic properties, they can form a paste or gel in the airway.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

MOBILITY: Not available

PERSISTENCE AND DEGRADABILITY: This product is biodegradable.

BIOACCUMULATIVE POTENTIAL: Inherently biodegradable.

ADDITIONAL INFORMATION:

- 96 Hour Acute Survival
  - Rainbow Trout: LC_{50} 491 mg/L, LC_{25} 347 mg/L
  - Fathead Minnow: LC_{50} 1110 mg/L, LC_{25} 678 mg/L

- 7-Day Chronic Survival and Growth
  - Rainbow Trout: LC_{50} 510 mg/L, LC_{25} 390 mg/L
  - Fathead Minnow: LC_{50} 605 mg/L, LC_{25} 443 mg/L
  - Ceriodaphnia Dubia: LC_{50} 352 mg/L, LC_{25} 289 mg/L

- Rainbow Trout (Biomass): LC_{50} 386 mg/L, LC_{25} 262 mg/L
- Fathead Minnow (Biomass): LC_{50} 505 mg/L, LC_{25} 256 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Component(s) listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	YES	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- Section 12: Ecological toxicity information updated.

DISCLAIMER:
****
The above information is based upon information HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.
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MSDS PREPARED BY: Jeremy Heath, EH&S Manager

Date: 12/28/2010
Revision: 03

Material Safety Data Sheet

StormKlear: Gel-Floc

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**StormKlear: Gel-Floc MB**
Synonyms:	Chitosan Lactate
Chemical Name:	Chitosan, 2-hydroxypropanoate (salt)
Chemical Formula:	Not available
CAS No.:	66267-50-3
Product Use:	Flocculates soil contamination in storm water.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	85 – 95	YES
Trade Secret	*Trade Secret*	15 – 5	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A fine, off-white powder with no odor.

This material/product may cause eye or skin irritation.

POTENTIAL HEALTH EFFECTS

EYE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision.

SKIN: Possible skin irritation or rash.

INHALATION: May aggravate pre-existing respiratory conditions or allergies. It may accumulate on linings of the nose and lungs resulting in dryness & coughing.

INGESTION: While it is not likely to be hazardous by ingestion, it may start dissolving and form a film on mucous membranes.

CHRONIC EXPOSURE/CARCINOGENICITY: Not known.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision. Skin irritation. It may accumulate on linings of the nose and lungs resulting in dryness & coughing. May start dissolving and form a film on mucous membranes.

AGGRAVATION OF PRE-EXISTING CONDITIONS: May aggravate pre-existing respiratory conditions or allergies.

POTENTIAL ENVIRONMENTAL EFFECTS: Avoid water if material is spilled; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (when applicable) and flush eyes with water for 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: If exposed to excessive levels of dust, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If available give several glasses of milk. Call a physician or poison control center immediately.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available
AUTOIGNITION TEMPERATURE: Not available
UPPER FLAMMABLE LIMIT: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Keep away from oxidizing agents and avoid open flames. Product may ignite at temperatures in excess of 400°F. Depending on moisture content and particle size, airborne dust of Chitosan lactate might explode in the presence of an ignition source. It is comparable to flour and wood dust.

HAZARDOUS COMBUSTION PRODUCTS: None known

EXTINGUISHING MEDIA: Water spray, CO_2 (carbon dioxide), foam or dry chemical.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: AVOID WATER; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

METHODS FOR CLEANING UP: The material may be vacuumed or collected for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Use with adequate ventilation.

FIRE PREVENTION: No special requirements.

SPECIAL HANDLING REQUIREMENTS: None.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: Keep container closed when not in use.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry areas and away from incompatible substances.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry areas and away from incompatible substances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is required. None required under normal conditions of use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: For operations where eye contact can occur, wear safety glasses.

SKIN PROTECTION: For operations where skin contact can occur, wear impervious rubber or neoprene apron.

HAND PROTECTION: For operations where hand contact can occur, wear impervious rubber or neoprene gloves.

RESPIRATORY PROTECTION: If dust is generated, a dust mask may be needed. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL

Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off-white.
PHYSICAL FORM: Fine powder.
pH: Not available
VAPOR DENSITY: Not available
MELTING POINT: Not available
SOLUBILITY IN WATER: Soluble

SHAPE: Fine powder.
ODOR: None
VAPOR PRESSURE: Not available
BOILING POINT: Not available
FREEZING POINT: Not available
SPECIFIC GRAVITY OR DENSITY: Not available

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (mice): >10g/kg

DERMAL LD_{50} (rabbit): Not available.

SKIN IRRITATION: Not available.

EYE IRRITATION: Not available.

SKIN SENSITIZATION: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (in water):

Acute Toxicity

- Daphnia: LC50 – 135 mg/L
- Daphnia: LC25 – Not Calculable
- Fathead Minnows: LC50 – 22.8 mg/L
- Fathead Minnows: LC25 – 16.9 mg/L

- Rainbow Trout: LC50 – 6.4 mg/L
- Rainbow Trout: LC25 – 4.4 mg/L

Chronic Toxicity
- Rainbow Trout: LC50 (survival) – 5.3 mg/L, 7 days
- Rainbow Trout: LC25 (survival) – 4.8 mg/L, 7 days
- Rainbow Trout: EC25 (biomass) – 3.5 mg/L, 7 days
- Fathead Minnows: LC50 (survival) – 25.4 mg/L, 7 days
- Fathead Minnows: LC25 (survival) – Not Calculable
- Fathead Minnows: EC25 (biomass) – 13.9 mg/L, 7 days

MOBILITY: Not available.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name: Not Regulated
Hazard Class: Not Regulated
Identification Number (UN Number): Not Regulated
Packing Group (PG): Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ

Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	NO	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- Composition updated
- Misc. formatting updates throughout

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