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

**CERTIFIED MAIL RETURN RECEIPT REQUESTED**

JUL 12 2013

Patrick D. Corcoran
Senior Project Manager
Enviro Trac Ltd.
2 Merchant Street, Suite 2
Sharon, MA 02067-1630

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Sunoco Gas Station Dewatering Excavation site located at 702 Neponset Street Canton, MA 02114-2023, Norfolk County; Authorization # MAG910583

Dear Mr. Corcoran:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Sunoco, Inc., by your firm Enviro Track 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 other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to discharge limitations based on a dilution factor range (DFR). With the limited dilution to Neponset River, EPA determined that the DFR for each parameter is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities) Therefore, the limit for arsenic of 42.7, copper of 22.2 ug/L,

lead of 5.55 ug/L, mercury of 3.84 ug/L, nickel of 123.8 ug/L, and iron of 4, 270 ug/L, are required to achieve permit compliance at your site.

Please note that the metal limitations for this site have increased. The reason for the increase has to do with the new RGP regulations which allows for a limit increase based on the metal limit times the available dilution of the receiving stream within the 1-5 range. The available dilution in this case is 4.27. See footnote eleven at the end of the "Summary of Monitoring Parameters" listed below for further explanation.

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

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on October 31, 2013. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,

Thelma Murphy

Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Michael Trotta, Canton DPW

## 2010 Remediation General Permit
## Summary of Monitoring Parameters[1]

| | |
|---|---|
| **NPDES Authorization Number:** | **MAG910583** |
| Authorization Issued: | July, 2013 |
| Facility/Site Name: | Sunoco Gas Station/ Excavation Dewatering |
| Facility/Site Address: | 702 Neponset Street Canton, MA 02114-2023, Norfolk County |
| | Email address of owner: MGRENDAL@sunocoinc.com |
| Legal Name of Operator: | EnviroTrack, Ltd. |
| Operator contact name, title, and Address: | Patrick D. Corcoran, LSP |
| | Email: Patrick@envirotrac.com |
| Estimated date of The Project Completion: | 10/31/2013 |
| Category and Sub-Category: | Petroleum Related Site Remediation. Sub-category C. Petroleum Sites with Additional Contamination |
| RGP Termination Date: | September 10, 2015 |
| Receiving Water: | Neponset 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#160.2/ML5ug/L |
| √ | 2. Total Residual Chlorine (TRC) [1] | Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L |
| √ | 3. Total Petroleum Hydrocarbons (TPH) | 5.0 mg/L/ Me# 1664A/ML 5.0mg/L |
| | 4. Cyanide (CN) [2, 3] | Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L |
| √ | 5. Benzene (B) | 5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L |
| | 6. Toluene (T) | (limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L |
| √ | 7. Ethylbenzene (E) | (limited as ug/L total BTEX) Me#8260C/ ML 2ug/L |
| √ | 8. (m,p,o) Xylenes (X) | (limited as ug/L total BTEX) Me#8260C/ ML 2ug/L |

| | 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) |
|---|---|---|
| √ | 9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4] | 100 ug/L/ Me#8260C/ ML 2ug/L |
| | 10. Ethylene Dibromide (EDB) (1,2- Dibromoethane) | 0.05 ug/l/ Me#8260C/ ML 10ug/L |
| | 11. Methyl-tert-Butyl Ether (MtBE) | 70.0 ug/l/Me#8260C/ML 10ug/L |
| √ | 12.tert-Butyl Alcohol (TBA) (TertiaryButanol) | Monitor Only(ug/L)/Me#8260C/ML 10ug/L |
| | 13. tert-Amyl Methyl Ether (TAME) | Monitor Only(ug/L)/Me#8260C/ML 10ug/L |
| √ | 14. Naphthalene [5] | 20 ug/L /Me#8260C/ML 2ug/L |
| | 15. Carbon Tetrachloride | 4.4 ug/L /Me#8260C/ ML 5ug/L |
| | 16. 1,2 Dichlorobenzene (o-DCB) | 600 ug/L /Me#8260C/ ML 5ug/L |
| | 17. 1,3 Dichlorobenzene (m-DCB) | 320 ug/L /Me#8260C/ ML 5ug/L |
| √ | 18. 1,4 Dichlorobenzene (p-DCB) | 5.0 ug/L /Me#8260C/ ML 5ug/L |
| | 18a. Total dichlorobenzene | 763 ug/L - NH only /Me#8260C/ ML 5ug/L |
| | 19. 1,1 Dichloroethane (DCA) | 70 ug/L /Me#8260C/ ML 5ug/L |
| | 20. 1,2 Dichloroethane (DCA) | 5.0 ug/L /Me#8260C/ ML 5ug/L |
| | 21. 1,1 Dichloroethene (DCE) | 3.2 ug/L/Me#8260C/ ML 5ug/L |
| | 22. cis-1,2 Dichloroethene (DCE) | 70 ug/L/Me#8260C/ ML 5ug/L |
| | 23. Methylene Chloride | 4.6 ug/L/Me#8260C/ ML 5ug/L |
| | 24. Tetrachloroethene (PCE) | 5.0 ug/L/Me#8260C/ ML 5ug/L |
| | 25. 1,1,1 Trichloro-ethane (TCA) | 200 ug/L/Me#8260C/ ML 5ug/L |
| | 26. 1,1,2 Trichloro-ethane (TCA) | 5.0 ug/L /Me#8260C/ ML 5ug/L |
| | 27. Trichloroethene (TCE) | 5.0 ug/L /Me#8260C/ ML 5ug/L |
| | 28. Vinyl Chloride (Chloroethene) | 2.0 ug/L /Me#8260C/ ML 5ug/L |
| | 29. Acetone | Monitor Only(ug/L)/Me#8260C/ML 50ug/L |
| | 30. 1,4 Dioxane | Monitor Only /Me#1624C/ML 50ug/L |
| | 31. Total Phenols | 300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L |
| | 32. Pentachlorophenol (PCP) | 1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L |
| | 33. Total Phthalates (Phthalate esters) [6] | 3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L |
| | 34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate] | 6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L |

| | 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) |
|---|---|---|
| | 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH) | 10.0 ug/L |
| √ | a. Benzo(a) Anthracene [7] | 0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | b. Benzo(a) Pyrene [7] | 0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | c. Benzo(b)Fluoranthene [7] | 0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | d. Benzo(k)Fluoranthene [7] | 0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | e. Chrysene [7] | 0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | f. Dibenzo(a,h)anthracene [7] | 0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L |
| √ | g. Indeno(1,2,3-cd) Pyrene [7] | 0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/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 100 ug/L |

| | Metal parameter | Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12] | Minimum level=ML |
|---|---|---|---|

| | | Freshwater | Saltwater | | |
|---|---|---|---|---|---|
| | 39. Antimony | 5.6/ML 10 | | | |
| √ | 40. Arsenic ** | 42.7/ML20 | 36/ML 20 | | |
| | 41. Cadmium ** | 0.2/ML10 | 8.9/ML 10 | | |
| | 42. Chromium III (trivalent) ** | 48.8/ML15 | 100/ML 15 | | |
| | 43. Chromium VI (hexavalent) ** | 11.4/ML10 | 50.3/ML 10 | | |
| √ | 44. Copper ** | 22.20/ML15 | 3.7/ML 15 | | |
| √ | 45. Lead ** | 5.55/ML20 | 8.5/ML 20 | | |
| √ | 46. Mercury ** | 3.84/ML0.2 | 1.1/ML 0.2 | | |
| √ | 47. Nickel ** | 123.8/ML20 | 8.2/ML 20 | | |
| | 48. Selenium ** | 5/ML20 | 71/ML 20 | | |
| | 49. Silver | 1.2/ML10 | 2.2/ML 10 | | |
| | 50. Zinc ** | 66.6/ML15 | 85.6/ML 15 | | |
| √ | 51. Iron | 4,270/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

June 14, 2013

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

Re: Remediation General Permit – Notice of Intent
Sunoco-branded Gasoline Station
702 Neponset Street
Canton, Massachusetts 02021-1976
Sunoco DUNS 0005-2746
MassDEP RTN 4-3012555

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 **Appendix A**. The Site is a Sunoco-branded retail petroleum station. Temporary construction dewatering will be required to facilitate the installation of a 16,000-gallon double-walled fiberglass reinforced plastic (FRP) underground storage tank (UST). Based on gauging of a monitoring well at the Site, the depth to groundwater is approximately 13 feet below ground surface (bgs). Excavation to approximately 16 to 17 feet bgs will be required for the UST installation. The location of the Site is depicted on the Site Locus Map (**Figure 1**). Also attached is a Discharge Location Plan (**Figure 2**), which depicts existing Site features, the wetlands representing the proposed discharge point, and the location of the discharge receiving water in relation to the Site.

During construction dewatering, groundwater will be pumped from the excavation into a fractionation tank for settlement and then treated through a bag filter and two 10,000-pound liquid phase carbon units arranged in series, followed by cartridge filters as a final unit process to remove suspended sediments. A schematic of the proposed treatment system is included as **Figure 3**. The treated effluent will be discharged to the wetlands located west of the Site. The wetlands discharge to the Neponset River, approximately 420 feet west of the Site. The design flow of the treatment system is 500 gallons per minute (gpm), and the average discharge rate of treated groundwater is anticipated to be 300 gpm.

On May 23, 2013, a groundwater sample was obtained from a monitoring well (MW-2) located adjacent to the proposed excavation area. Based on analytical data, volatile organic compounds, metals, chloride, gasoline range organic total petroleum hydrocarbons (TPH-GRO), trivalent chromium, and total suspended solids (TSS) were detected in groundwater.

Concentrations of lead, iron, 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. A dilution factor of 4.3 was calculated for all metals which exceeded Effluent Limitations published in Appendix III of the RGP (refer to **Appendix A**). Based on a Dilution Factor Range of greater than 1 to 5, concentrations of iron exceeded applicable Total Recoverable Metal Limitations published in Appendix IV of the RGP. As such,

the proposed treatment system includes solids removal system components, consisting of bag filter units and cartridge filter units, which are expected to remove total iron from groundwater. Analytical data are summarized in **Table 1**. The laboratory analytical report supporting this NOI is included in **Appendix B**.

According to the National Park Service's National Register Information System (NRIS) (http://www.nps.gov/nr/research/) four historical sites are located in Canton, Massachusetts. The nearest listed historical site is the Canton Viaduct, located at Neponset and Walpole Streets, approximately 5,100 feet southeast of the Site. In addition, the Massachusetts Historical Commission's Massachusetts Cultural Resource Information System (MACRIS) (http://www.sec.state.ma.us/mhc/) listed 438 sites in Canton. The nearest Massachusetts-listed site, Revere Copper Company Superintendent House, at 468 Neponset Street, is located approximately 3,500 feet southeast of the Site. Based on the distances to the Site, the discharge will not likely adversely affect federal or state-listed historical sites. Copies of the NRIS and MACRIS listings are included in **Appendix C**.

Based on a review of Appendices II and VII of the RGP and the New England Listed Species shown on the U.S. Fish and Wildlife Service (FWS) New England Field Office web site, (http://www.fws.gov/newengland/EndangeredSpec-NEListedSpecies.htm), the Site is not located within the U.S. Fish and Wildlife Service (FWS) listing of federally endangered and threatened species for counties in Massachusetts. According to the Massachusetts Division of Fisheries and Wildlife (http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/), the Site is not located with a Natural Heritage Endangered Species Program (NHESP) Estimated or Priority Habitat. However, based on a review of the Massachusetts Department of Conservation and Recreation Area of Critical Environmental Concern (ACEC) Program web site (http://www.mass.gov/dcr/stewardship/acec/index.htm), the Site is located within the Fowl Meadow and Ponkapoag Bog ACEC. A Massachusetts Contingency Plan (MCP) Numerical Ranking System Map depicting the location of the Site in relation to natural resources is attached as **Figure 4**.

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.

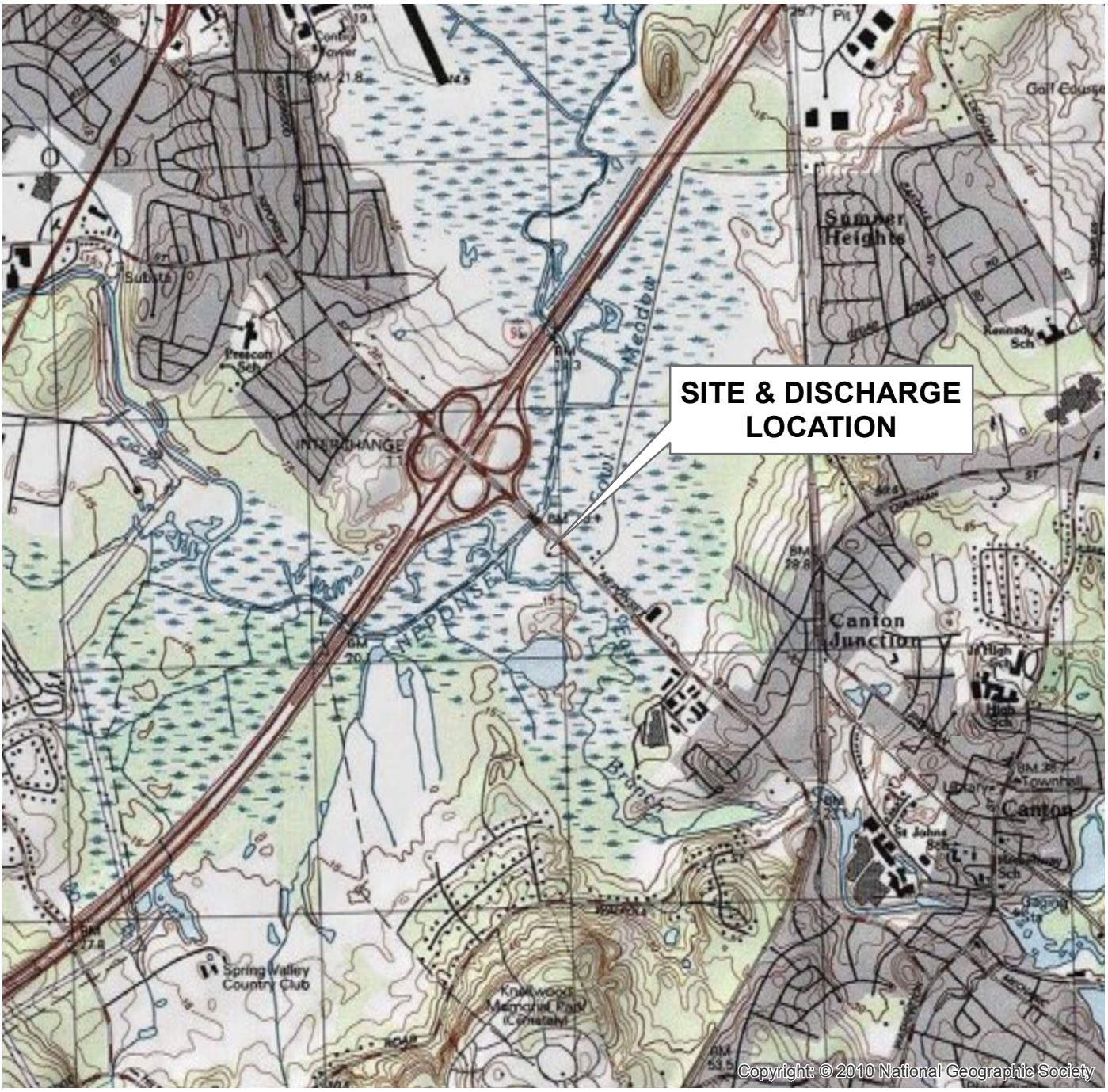
If you have any questions or require further information, please contact the undersigned at (781) 793-0074.

Sincerely,
***EnviroTrac Ltd.***

Patrick D. Corcoran, LSP
Senior Project Manager

cc.: MassDEP NERO
Gerald A. Salvatori, Jr., Chairman, Town of Canton Board of Selectmen
M. Grendal, Sunoco Inc. (R&M)
W. Brochu, Sunoco Inc. (R&M)

**FIGURES**




0.5 0.25 0 0.5 1

Miles

Scale: 1:24,000

Sunoco Gasoline Station
702 Neponset Street
Canton, MA 02021

**FIGURE 1**

SITE LOCUS MAP
UNITED STATES GEOLOGICAL SURVEY
CANTON, MA QUADRANGLE

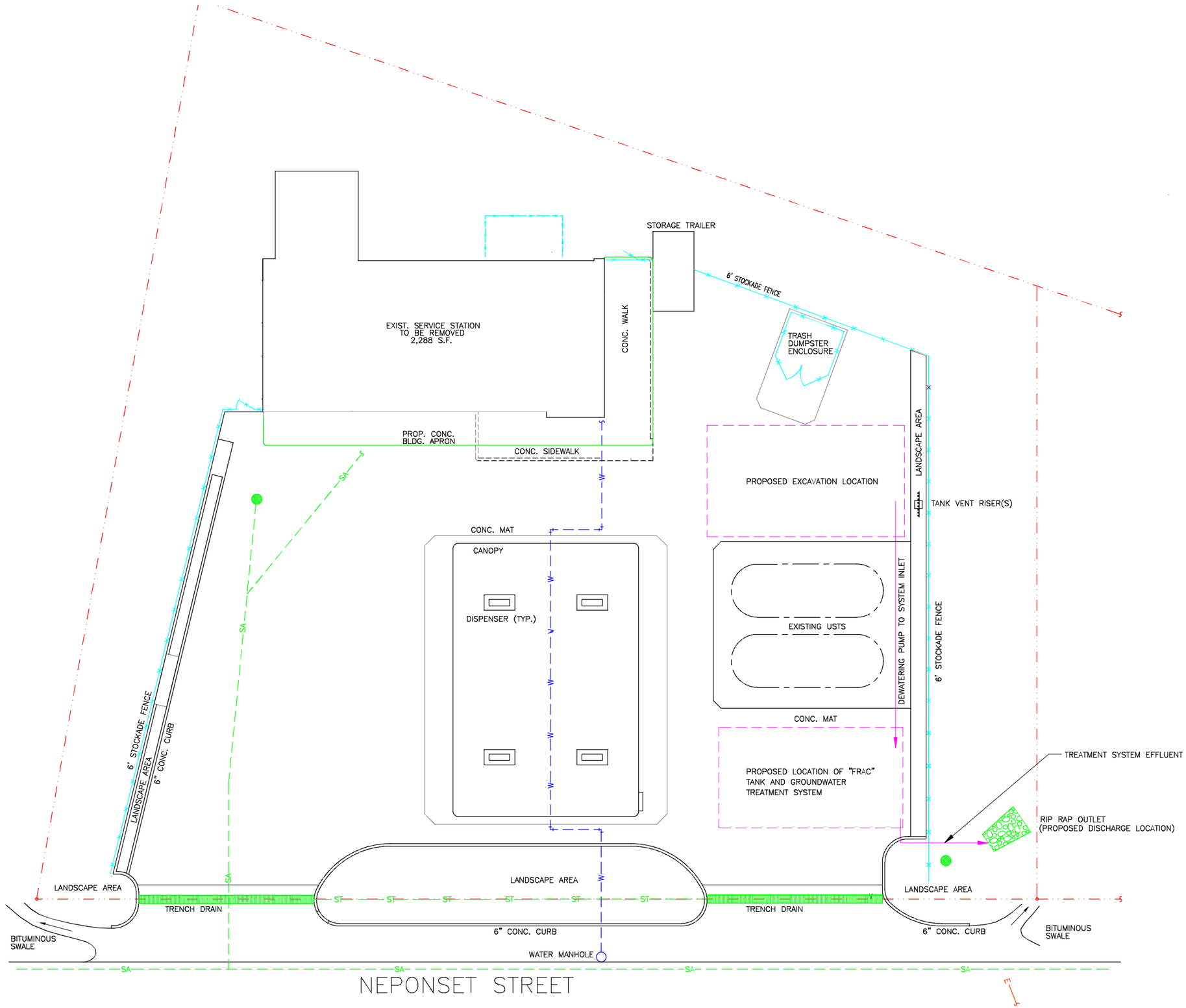
Contour Interval: 3 m

UTM Coordinates:
4,670,660 m North
321,020 m East

Latitude/Longitude:
42° 10' 04" North
71° 10' 01" West

N
W E
S

EnviroTrac
Environmental Services




**LEGEND:**

- PROPERTY LINE (APPROX.)
- ST — STORM SEWER
- SA — SANITARY SEWER
- W — WATER LINE
- X — STOCKADE FENCE
- E — ELECTRIC LINE
- OIL/WATER SEPARATOR (MDC TRAP)

DRAWN/REVISED BY: PDC

REVISION DATE: JUNE 14, 2013

FIGURE: 2

DRAWING TITLE

SITE PLAN

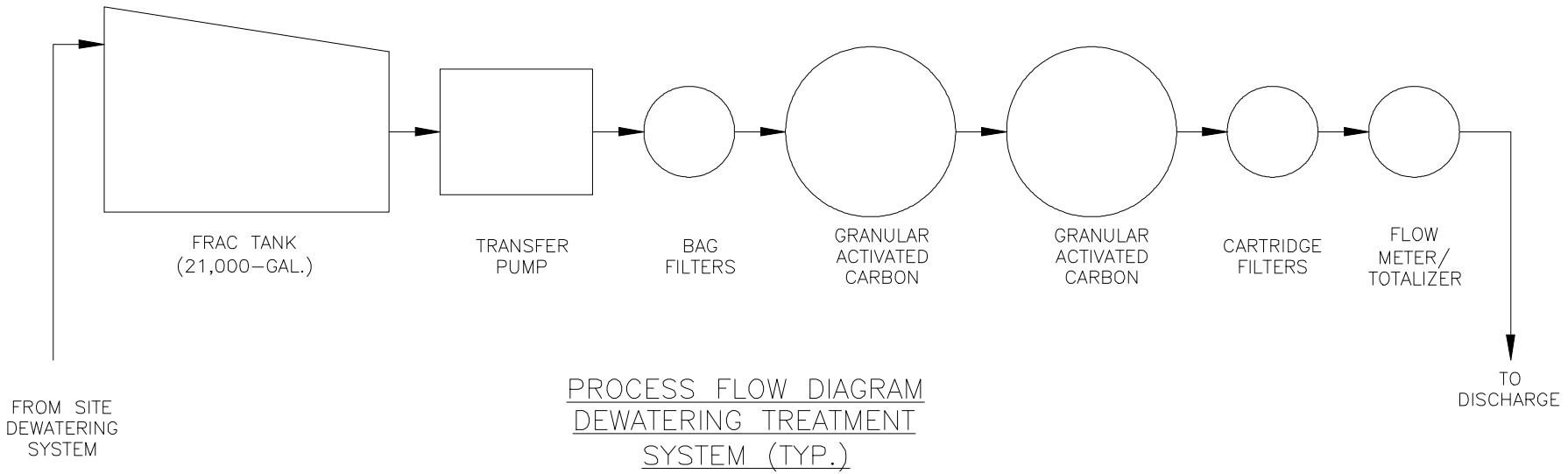
PREPARED FOR

SUNOCO GASOLINE STATION
702 NEPONSET STREET
CANTON, MASSACHUSETTS

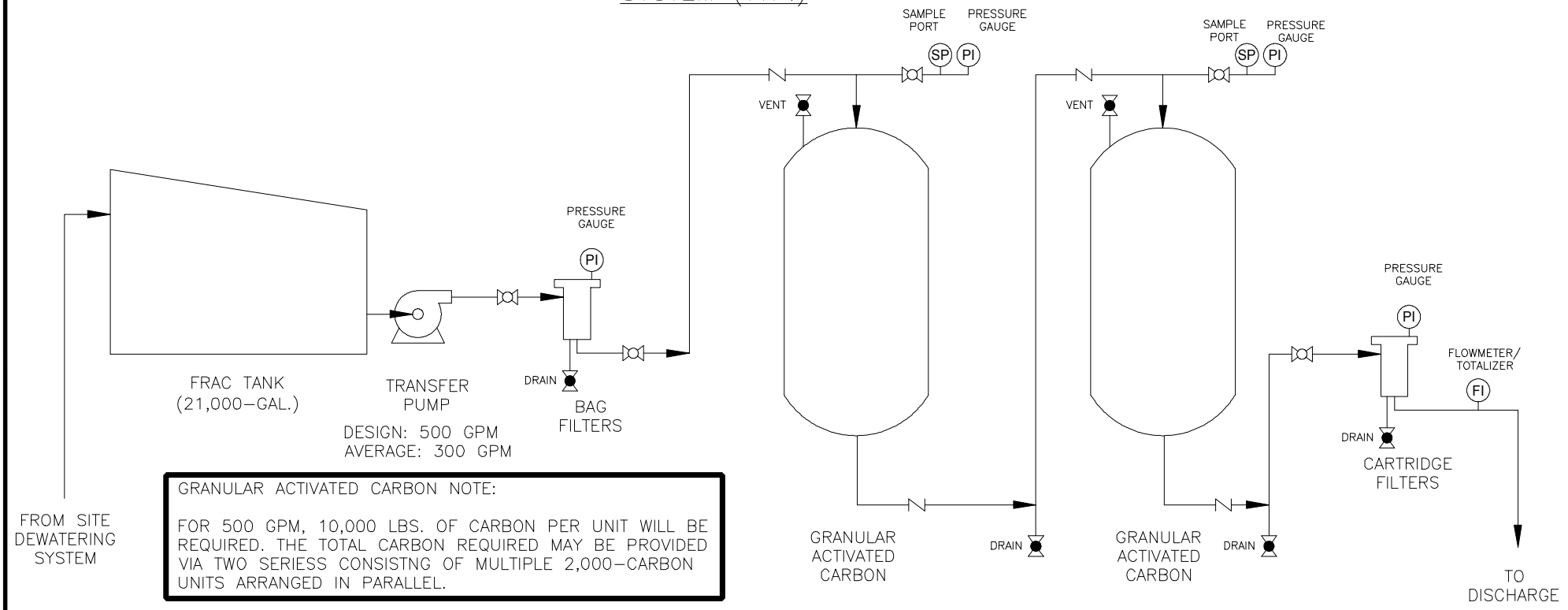
0 20' 40'

GRAPHIC SCALE

EnviroTrac
ENVIRONMENTAL SERVICES
2 MERCHANT STREET, SUITE 2
SHARON, MA 02067 (781) 793-0074




## PROCESS FLOW DIAGRAM
## DEWATERING TREATMENT
## SYSTEM (TYP.)




GRANULAR ACTIVATED CARBON NOTE:

FOR 500 GPM, 10,000 LBS. OF CARBON PER UNIT WILL BE REQUIRED. THE TOTAL CARBON REQUIRED MAY BE PROVIDED VIA TWO SERIESS CONSISTNG OF MULTIPLE 2,000–CARBON UNITS ARRANGED IN PARALLEL.

| | | | | |
|---|---|---|---|---|
| FIGURE # 3 | PROCESS FLOW DIAGRAM | | | SUNOCO GASOLINE STATION<br>702 NEPONSET STREET<br>CANTON, MASSACHUSETTS |
| | CREATED BY: PDC<br>DATE: 06/14/2013 | NOT TO SCALE | REVISED BY:<br>DATE: | |

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

# MassDEP - Bureau of Waste Site Cleanup

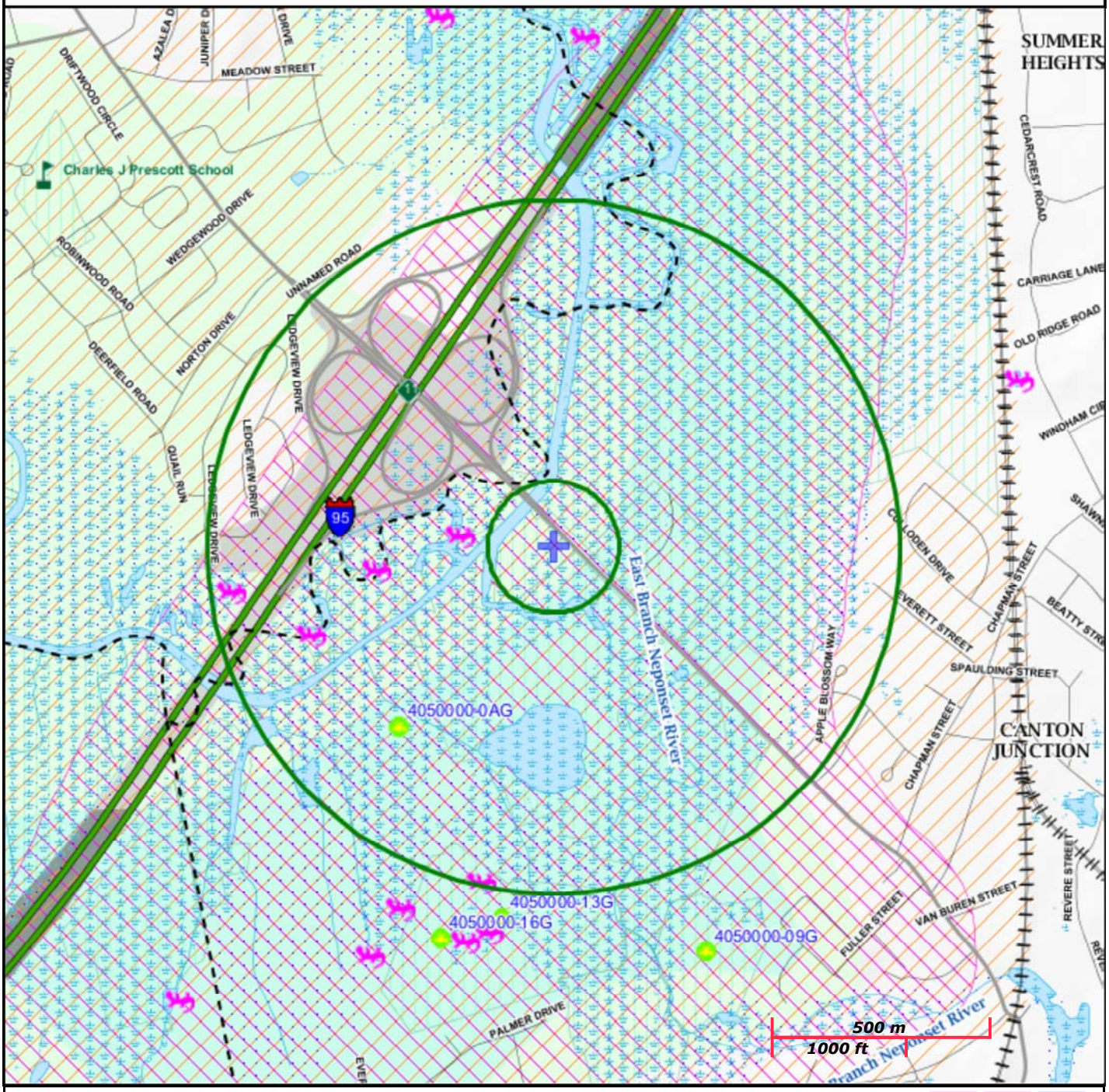
## Site Information: MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

**SUNOCO GASOLINE STATION**
**702 NEPONSET STREET CANTON, MA**
**4-003012555**

**NAD83 UTM Meters:**
**5186139mN , -7922276mE (Zone: 18)**
**June 14, 2013**

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

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection




Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.

**TABLE**

**TABLE 1**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**

**Sunoco Canton**
**702 Neponset Street**
**Canton, Massachusetts**

| Sample ID | MW-2 | RGP Appendix III | RGP Appendix IV Effluent Limits |
|---|---|---|---|
| Sample Date | 05/23/2013 | Effluent Limits | Dilution Factor Range >1-5 |
| **Volatile Organic Compounds (µg/L)** | | | |
| Benzene | 18.4 | 50 | NA |
| Toluene | <1.0 | NE | NA |
| Ethylbenzene | 1.1 | NE | NA |
| Xylenes | 2.3 | NE | NA |
| Total BTEX | 21.8 | 100 | NA |
| Naphthalene | 0.78 | 20 | NA |
| n-Propylbenzene | 5.0 | <100 | NA |
| 1,4-Dichlorobenzene | 2.0 | 5.0 | NA |
| Tert Butyl Alcohol | 125 | NE | NA |
| All other VOCs | ND | NE | NA |
| **Total Petroleum Hydrocarbons (mg/L)** | | | |
| TPH-GRO | 0.172 | 5.0 | NA |
| **Polycyclic Aromatic Hydrocarbons (µg/L)** | | | |
| Acenaphthene | <0.1 | -- | NE |
| Acenaphthylene | <0.1 | -- | NE |
| Anthracene | <0.1 | -- | NE |
| Benzo(g,h,i)perylene | 2.6 | -- | NE |
| Fluoranthene | 3.2 | -- | NE |
| Fluorene | <0.10 | -- | NE |
| Phenanthrene | 0.78 | -- | NE |
| Pyrene | 2.5 | -- | NE |
| **Total Group II PAHs** | 9.1 | 100 | NE |
| Benzo(a)anthracene | **1.7** | 0.0038 | NE |
| Benzo(a)pyrene | **2.3** | 0.0038 | NE |
| Benzo(b)fluoranthene | **3.7** | 0.0038 | NE |
| Benzo(k)fluoranthene | **1.5** | 0.0038 | NE |
| Chrysene | **2.5** | 0.0038 | NE |
| Dibenzo(a,h)anthracene | **1.0** | 0.0038 | NE |
| Indeno(1,2,3-cd)pyrene | **2.3** | 0.0038 | NE |
| 2-Methylnaphthalene | <0.21 | -- | NE |
| **Total Metals (µg/L)** | | | |
| Antimony | <6.0 | 5.6 | 24 |
| Arsenic | **11.8** | 10 | 43 |
| Cadmium | <4.0 | 0.2 | 0.86 |
| Chromium | 27.4 | 48.8 | 210 |
| Copper | <25 | 5.2 | 22 |
| Iron | **66,300** | 1,000 | 4,300 |
| Lead | **10.7** | 1.3 | 5.6 |
| Mercury | 0.49 | 0.9 | 3.9 |
| Nickel | <40 | 29 | 125 |
| Selenium | <10 | 5 | 22 |
| Silver | <5.0 | 1.2 | 5.2 |
| Zinc | 20.4 | 66.6 | 286 |
| **General Chemistry (mg/L)** | | | |
| Chloride | 1,970 | NE | NA |
| Chromium, Hexavalent | <0.010 | 0.114 | 0.490 |
| Chromium, Trivalent | 0.025 | 0.488 | 2.10 |
| Total Suspended Solids | **638** | 30 | NA |
| Total Residual Chlorine | <0.050 | 0.0075 | NA |

**NOTES:**
RGP is Remediation General Permit
TPH-GRO is total petroleum hydrocarbons, gasoline range organics
mg/L is milligrams per liter
µg/L is micrograms per liter
< Indicates that the compound was not detected at the laboratory detection limit listed
ND is not detected
NE is not established
NA is not applicable
**BOLD** indicates concentrations greater than RGP Appendix III effluent limits
**RED** indicates concentrations greater than RGP Appendix IV effluent limits
A Dilution Factor of 4.3 was calculated based on the following equation:
(Maximum Flow Rate of Discharge + 7Q10 of receiving water)/Maximum Flow Rate of Discharge
= (1.1 cfs + 3.6 cfs) / 1.1 cfs = 4.3, where cfs is cubic feet per second
For metals, the Dilution Factor was used to determine the RGP Appendix IV effluent limits



EnviroTrac Environmental Services

# APPENDIX 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 Gasoline Station | | **Facility/site** mailing address: | | |
| Location of **facility/site**:<br>longitude: 42° 10' 04"<br>latitude: -71° 10' 01" | Facility SIC code(s): 5541 | Street: 702 Neponset Street | | |
| b) Name of **facility/site owner:** Sunoco Inc.<br>Attn: Mike Grandal | | Town: Canton | | |
| Email address of facility/site owner: MGRENDAL@sunocoinc.com | | State: MA | Zip: 02114-2023 | County: Norfolk |
| Telephone no. of facility/site **owner**: (617) 529-3932 | | | | |
| Fax no. of facility/site **owner**: (866) 699-0113 | | **Owner** is (check one): 1. Federal ○ 2. State/Tribal ○<br>3. Private ◉ 4. Other ○ if so, describe: | | |
| Address of **owner** (if different from site): | | | | |
| Street: 140 Lee Burbank Highway | | | | |
| Town: Revere | State: MA | Zip: 02151-4034 | County: Suffolk | |
| c) Legal name of **operator**: EnviroTrac Ltd. | **Operator** telephone no: (781) 793-0074 | | | |
| | **Operator** fax no.: (781) 793-7877 | **Operator** email: patrickc@envirotrac.com | | |
| **Operator** contact name and title: Partick D. Corcoran, LSP | | | | |
| Address of **operator** (if different from owner): | Street: 2 Merchant Street, Suite 2 | | | |
| Town: Sharon | State: MA | Zip: 02067-1630 | 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 #:
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 ☐<br>B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐<br>C. Petroleum Sites with Additional Contamination ☒ |
| II - Non Petroleum Site Remediation | A. Volatile Organic Compound (VOC) Only Sites ☐<br>B. VOC Sites with Additional Contamination ☐<br>C. Primarily Heavy Metal Sites ☐ |
| III - Contaminated Construction Dewatering | A. General Urban Fill Sites ☐<br>B. Known Contaminated Sites ☐ |

| | |
|---|---|
| IV - Miscellaneous Related Discharges | A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐<br>B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐<br>C. Hydrostatic Testing of Pipelines and Tanks ☐<br>D. Long-Term Remediation of Contaminated Sumps and Dikes ☐<br>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. 300 gpm of groundwater will be pumped into a fractionation tank, bag filters, two 2,000-pound liquid phase carbon units arranged in series, and a cartridge filter. The effluent will be discharged to a catch basin that ultimately discharges to the North Nashua 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: 1.1 cfs Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units) 0.67 cfs Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 42.1678 long. -71.1833 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 July 15, 2013 end October 31, 2013

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 Process Flow Diagram (Figure 3) attached.

**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 | 2540D | 8,000 | 6.38E+5 | 1.74E+3 | 6.38E+5 | 1.04E+3 |
| 2. Total Residual Chlorine (TRC) | | ☒ | ☐ | 1 | Grab | 4500CL F | 50 | 0 | 0 | 0 | 0 |
| 3. Total Petroleum Hydrocarbons (TPH) | | ☐ | ☒ | 1 | Grab | 8015 | 100 | 1.72E+2 | 7.01E0 | 1.72E+2 | 4.21E0 |
| 4. Cyanide (CN) | 57125 | ☒ | ☐ | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5. Benzene (B) | 71432 | ☐ | ☒ | 1 | Grab | 8260B | 0.50 | 1.84E+1 | 5.02E-1 | 1.84E+1 | 3.01E-1 |
| 6. Toluene (T) | 108883 | ☒ | ☐ | 1 | Grab | 8260B | 1.0 | 0 | 0 | 0 | 0 |
| 7. Ethylbenzene (E) | 100414 | ☐ | ☒ | 1 | Grab | 8260B | 1.0 | 1.10E0 | 3.00E-3 | 1.10E0 | 1.80E-3 |
| 8. (m,p,o) Xylenes (X) | 108883; 106423; 95476; 1330207 | ☐ | ☒ | 1 | Grab | 8260B | 1.0 | 2.30E0 | 6.28E-3 | 2.30E0 | 3.77E-3 |
| 9. Total BTEX [2] | n/a | ☐ | ☒ | 1 | Grab | 8260B | N/A | 2.18E+1 | 5.95E-2 | 2.18E+1 | 3.57E-2 |
| 10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3] | 106934 | ☒ | ☐ | 1 | Grab | 8260B | 2.0 | 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 | 20 | 1.25E+2 | 5.09E0 | 1.25E+2 | 3.06E0 |

***** 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 | 8270C | 0.10 | 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 | 2.00E0 | 5.46E-3 | 2.00E0 | 3.28E-3 |
| 18a. Total dichlorobenzene | | ☐ | ☒ | 1 | Grab | 8260B | N/A | 2.00E0 | 5.46E-3 | 2.00E0 | 3.28E-3 |
| 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 | 10 | 0 | 0 | 0 | |
| 30. 1,4 Dioxane | 123911 | ☒ | ☐ | 1 | Grab | 8260B | 25 | 0 | 0 | 0 | 0 |
| 31. Total Phenols | 108952 | ☒ | ☐ | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 |
| 32. Pentachlorophenol (PCP) | 87865 | ☒ | ☐ | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 |
| 33. Total Phthalates (Phthalate esters) [4] | | ☒ | ☐ | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 |
| 34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate] | 117817 | ☒ | ☐ | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 |
| 35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH) | | ☒ | ☐ | N/A | N/A | N/A | N/A | 1.5E1 | 4.09E-2 | 1.5E1 | 2.46E-2 |
| a. Benzo(a) Anthracene | 56553 | ☐ | ☒ | 1 | Grab | 8270C | 0.052 | 1.70E0 | 4.64E-3 | 1.70E0 | 2.78E-3 |
| b. Benzo(a) Pyrene | 50328 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 2.30E0 | 6.28E-3 | 2.30E0 | 3.77E-3 |
| c. Benzo(b)Fluoranthene | 205992 | ☐ | ☒ | 1 | Grab | 8270C | 0.052 | 3.70E0 | 1.01E-2 | 3.70E0 | 6.06E-3 |
| d. Benzo(k)Fluoranthene | 207089 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 1.50E0 | 4.09E-3 | 1.50E0 | 2.46E-3 |
| e. Chrysene | 21801 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 2.50E0 | 6.82E-3 | 2.50E0 | 4.09E-3 |
| f. Dibenzo(a,h)anthracene | 53703 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 1.00E0 | 2.73E-3 | 1.00E0 | 1.64E-3 |
| g. Indeno(1,2,3-cd) Pyrene | 193395 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 2.30E0 | 6.28E-3 | 2.30E0 | 3.77E-3 |
| 36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH) | | ☒ | ☐ | N/A | N/A | N/A | N/A | 9.08E0 | 2.67E-2 | 9.08E0 | 1.60E-2 |

[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 | 0.10 | 0 | 0 | 0 | 0 |
| i. Acenaphthylene | 208968 | ☒ | ☐ | 1 | Grab | 8270C | 0.10 | 0 | 0 | 0 | 0 |
| j. Anthracene | 120127 | ☒ | ☐ | 1 | Grab | 8270C | 0.10 | 0 | 0 | 0 | 0 |
| k. Benzo(ghi) Perylene | 191242 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 2.60E0 | 7.10E-3 | 2.60E0 | 4.26E-3 |
| l. Fluoranthene | 206440 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 3.20E0 | 8.73E-3 | 3.20E0 | 5.24E-3 |
| m. Fluorene | 86737 | ☒ | ☐ | 1 | Grab | 8270C | 0.10 | 0 | 0 | 0 | 0 |
| n. Naphthalene | 91203 | ☒ | ☐ | 1 | Grab | 8270C | 0.10 | 0 | 0 | 0 | 0 |
| o. Phenanthrene | 85018 | ☐ | ☒ | 1 | Grab | 8270C | 0.052 | 7.80E-1 | 2.13E-3 | 7.80E-1 | 1.28E-3 |
| p. Pyrene | 129000 | ☐ | ☒ | 1 | Grab | 8270C | 0.10 | 2.50E0 | 6.82E-3 | 2.50E0 | 4.09E-3 |
| 37. Total Polychlorinated Biphenyls (PCBs) | 85687; 84742; 117840; 84662; 131113; 117817. | ☒ | ☐ | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 |
| 38. Chloride | 16887006 | ☐ | ☒ | 1 | Grab | 4500 CL C | 100,000 | 1.97E+5 | 5.38E+2 | 1.97E+5 | 3.23E+2 |
| 39. Antimony | 7440360 | ☒ | ☐ | 1 | Grab | 3010A | 6.0 | 0 | 0 | 0 | 0 |
| 40. Arsenic | 7440382 | ☐ | ☒ | 1 | Grab | 3010A | 4.0 | 1.18E+1 | 3.22E-2 | 1.18E+1 | 1.93E-2 |
| 41. Cadmium | 7440439 | ☒ | ☐ | 1 | Grab | 3010A | 4.0 | 0 | 0 | 0 | 0 |
| 42. Chromium III (trivalent) | 16065831 | ☐ | ☒ | 1 | Grab | 6010/7196A | 20 | 2.50E+1 | 6.82E-2 | 2.50E+1 | 4.09E-2 |
| 43. Chromium VI (hexavalent) | 18540299 | ☒ | ☐ | 1 | Grab | 7196A | 10 | 0 | 0 | 0 | 0 |
| 44. Copper | 7440508 | ☒ | ☐ | 1 | Grab | 3010A | 25 | 0 | 0 | 0 | 0 |
| 45. Lead | 7439921 | ☐ | ☒ | 1 | Grab | 3010A | 5.0 | 1.07E+1 | 2.92E-2 | 1.07E+1 | 1.75E-2 |
| 46. Mercury | 7439976 | ☐ | ☒ | 1 | Grab | 3010A | 0.20 | 4.90E-1 | 1.34E-3 | 4.90E-1 | 8.02E-4 |
| 47. Nickel | 7440020 | ☒ | ☐ | 1 | Grab | 3010A | 40 | 0 | 0 | 0 | 0 |
| 48. Selenium | 7782492 | ☒ | ☐ | 1 | Grab | 3010A | 10 | 0 | 0 | 0 | 0 |
| 49. Silver | 7440224 | ☒ | ☐ | 1 | Grab | 3010A | 5.0 | 0 | 0 | 0 | 0 |
| 50. Zinc | 7440666 | ☐ | ☒ | 1 | Grab | 3010A | 20 | 2.04E+1 | 5.57E-2 | 2.04E+1 | 3.34E-2 |
| 51. Iron | 7439896 | ☐ | ☒ | 1 | Grab | 3010A | 100 | 6.63E+4 | 1.81E+2 | 6.63E+4 | 1.09E+2 |
| 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?<br>Fe and Pb |
| *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?<br>Metal: Fe and Pb DF: 33<br>Metal: DF:<br>Metal: DF:<br>Metal: DF:<br>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)?<br>Y◉ N○ If Y, list which metals:<br>Fe |

**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:

Approximately 300 gpm of groundwater will be pumped into a fractionation tank, two bag filters arranged in a series, two 10,000-pound liquid phase carbon units arranged in series, and two cartridge filters. (Each 10,000-pound carbon unit may be substituted with five 2,000-pound carbon units arranged in parallel). See attached process flow diagram (Figure 3).

| | | | | | | |
|---|---|---|---|---|---|---|
| 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): | Cartridge filters | | |

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 300 gpm Maximum flow rate of treatment system 500 gpm
Design flow rate of treatment system 500 gpm

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

No chemical additives will be used.

**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 storm drain at northwestern corner of facility. Storm drain discharges to wetlands connected to the Neponset 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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 3.6 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

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

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

**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 Gasoline Station |
| Operator signature: |  |
| Printed Name &Title: | Patrick D. Corcoran, LSP, Senior Project Manager |
| Date: | 06/14/2013 |

Remediation General Permit – Notice of Intent

**Maximum Daily Value and Dilution Factor Calculations**

## Maximum Daily Value

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

0.432 million gallons per day (MGD) * concentration of parameter in milligrams per liter (mg/L) * 8.34 = mass in kg

**Example:**

Total Suspended Solids:

0.432 MGD * 638,000 mg/L * 8.34 = 2.29E+06 kg

## Dilution Factor

To calculate the dilution factor (DF), the following formula was used:

$DF = (Q_d + Q_s)/Q_d$ where: $Q_d$ = Maximum flow rate of discharge in cubic feet per second (cfs)

Qs = Receiving water 7Q10 flow (the lowest s seven-day average flow that occurs on average once every 10 years) in cfs

DF = (1.1 cfs + 3.6 cfs) / 1.1 cfs = 4.3

Note: The 7Q10 of the East Branch Neponset River in Canton, Massachusetts was obtained from the United States Geological Survey Surface Water Statistics for the East Branch of the Neponset River Gauge # 01105500, Canton, Massachusetts.

# APPENDIX B

New England ACCUTEST LABORATORIES

Reissue #1
06/13/13

Technical Report for

Sunoco

ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

Accutest Job Number: MC21113

Sampling Date: 05/23/13

Report to:

Envirotrac Ltd.

patrickc@envirotrac.com

ATTN: Patrick Corcoran

Total number of pages in report: **52**

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: Matthew Morrell 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) WI (399080220) ISO 17025:2005 (L2235)


Test results relate only to samples analyzed.

**Patrick Corcoran**
2 Merchant Street Suite #2
Sharon, MA 02067
patrickc@envirotrac.com

June 13, 2013

Accutest Job MC21113 (revision 1)

Ms. Corcoran,

The report of Accutest job number MC21113 has been revised per your request to report TBA. These changes have been incorporated into the revised report which is attached.

Sincerely,

Matthew Morrell
Accutest Laboratories of New England, Inc.

Sections: 1 2 3 4 5 6 7 8 9 10

# Table of Contents

# Sample Summary

Sunoco

**Job No:** MC21113

ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| MC21113-1 | 05/23/13 | 10:00 | FM | 05/23/13 | AQ | Ground Water | MW-2 |

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Sunoco **Job No** MC21113

**Site:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street **Report Date** 6/10/2013 10:48:37 AM

1 Sample was collected on 05/23/2013 and were received at Accutest on 05/23/2013 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of MC21113. 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:** MSV766

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Continuing calibration check standard MSV766-CC762 for dichlorodifluoromethane, Tetrahydrofuran, trichlorofluoromethane, carbon tetrachloride, 1,4-dioxane, 4-methyl-2-pentanone, naphthalene , 2-hexanone, bromoform, 1,2-dibromo-3-chloropropane, 1,2,3-trichlorobenzene exceed 20% Difference. This check standard met MCP criteria.
- The response factor (RF) for the 2-Butanone low point in the initial calibration MSV762-ICC762 is 0.029 less than the required RF of 0.1 as noted in Table 4 of SW846 8260C.
- Quadratic regression is employed for initial calibration standard in MSV762-ICC762 for n-propylbenzene, sec-butylbenzene.

## Extractables by GCMS By Method SW846 8270C BY SIM

**Matrix** AQ **Batch ID:** OP33362

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Only PAHs requested.

## Volatiles by GC By Method SW846 8015

**Matrix** AQ **Batch ID:** GWX3213

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

## Metals By Method SW846 6010C

**Matrix** AQ **Batch ID:** MP21062

- 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) MC21124-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP21062-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: | MP21095 |
|---|---|---|---|

- 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: | R33039 |
|---|---|---|---|

- MC21113-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

## Wet Chemistry By Method SM21 2540D

| Matrix | AQ | Batch ID: | GN42985 |
|---|---|---|---|

- 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: | GN43057 |
|---|---|---|---|

- 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: | GN42966 |
|---|---|---|---|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC21113-1 for Total Residual Chlorine: Analysis performed past the required 15 minutes of collection time/holding time.

## Wet Chemistry By Method SW846 7196A

| Matrix | AQ | Batch ID: | GN42963 |
|---|---|---|---|

- 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(MC21113).

# Summary of Hits



**Job Number:** MC21113
**Account:** Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA
**Collected:** 05/23/13



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **MC21113-1** | **MW-2** | | | | | |
| Benzene | | 18.4 | 0.50 | | ug/l | SW846 8260B |
| 1,4-Dichlorobenzene | | 2.0 | 1.0 | | ug/l | SW846 8260B |
| Ethylbenzene | | 1.1 | 1.0 | | ug/l | SW846 8260B |
| n-Propylbenzene | | 5.0 | 5.0 | | ug/l | SW846 8260B |
| Tert Butyl Alcohol | | 125 | 20 | | ug/l | SW846 8260B |
| m,p-Xylene | | 1.4 | 1.0 | | ug/l | SW846 8260B |
| Xylene (total) | | 2.3 | 1.0 | | ug/l | SW846 8260B |
| Benzo(a)anthracene | | 1.7 | 0.052 | | ug/l | SW846 8270C BY SIM |
| Benzo(a)pyrene | | 2.3 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Benzo(b)fluoranthene | | 3.7 | 0.052 | | ug/l | SW846 8270C BY SIM |
| Benzo(g,h,i)perylene | | 2.6 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Benzo(k)fluoranthene | | 1.5 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Chrysene | | 2.5 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Dibenzo(a,h)anthracene | | 1.0 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Fluoranthene | | 3.2 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Indeno(1,2,3-cd)pyrene | | 2.3 | 0.10 | | ug/l | SW846 8270C BY SIM |
| Phenanthrene | | 0.78 | 0.052 | | ug/l | SW846 8270C BY SIM |
| Pyrene | | 2.5 | 0.10 | | ug/l | SW846 8270C BY SIM |
| TPH-GRO (VOA) | | 0.172 | 0.10 | | mg/l | SW846 8015 |
| Arsenic | | 11.8 | 4.0 | | ug/l | SW846 6010C |
| Chromium | | 27.4 | 10 | | ug/l | SW846 6010C |
| Iron | | 66300 | 100 | | ug/l | SW846 6010C |
| Lead | | 10.7 | 5.0 | | ug/l | SW846 6010C |
| Mercury | | 0.49 | 0.20 | | ug/l | SW846 7470A |
| Zinc | | 20.4 | 20 | | ug/l | SW846 6010C |
| Chloride | | 1970 | 100 | | mg/l | SM21 4500CL C |
| Chromium, Trivalent [a] | | 0.025 | 0.020 | | mg/l | 6010/7196A M/200.7 |
| Solids, Total Suspended | | 638 | 8.0 | | mg/l | SM21 2540D |
| Total Residual Chlorine [b] | | < 0.050 | 0.050 | | mg/l | SM21 4500CL F |

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Analysis performed past the required 15 minutes of collection time/holding time.

New England ACCUTEST LABORATORIES



Sample Results

Report of Analysis

# Report of Analysis





**Client Sample ID:** MW-2
**Lab Sample ID:** MC21113-1 **Date Sampled:** 05/23/13
**Matrix:** AQ - Ground Water **Date Received:** 05/23/13
**Method:** SW846 8260B **Percent Solids:** n/a
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | V19617.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |
| 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 | 10 | ug/l | |
| 71-43-2 | Benzene | 18.4 | 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 | 2.0 | 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:** | MW-2 | | |
| **Lab Sample ID:** | MC21113-1 | **Date Sampled:** | 05/23/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/13 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, 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 | 1.1 | 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 | 5.0 | 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 | 125 | 20 | ug/l | |
| 637-92-3 | tert-Butyl Ethyl Ether | ND | 2.0 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 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 | 1.4 | 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:** | MW-2 | | |
| **Lab Sample ID:** | MC21113-1 | **Date Sampled:** | 05/23/13 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/23/13 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA | | |

**VOA MCP List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 1330-20-7 | Xylene (total) | 2.3 | 1.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | | 70-130% |
| 2037-26-5 | Toluene-D8 | 110% | | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 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:** MW-2
**Lab Sample ID:** MC21113-1 **Date Sampled:** 05/23/13
**Matrix:** AQ - Ground Water **Date Received:** 05/23/13
**Method:** SW846 8270C BY SIM SW846 3510C **Percent Solids:** n/a
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I83907.D | 1 | 06/03/13 | KR | 05/28/13 | OP33362 | MSI3119 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.10 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 0.10 | ug/l | |
| 120-12-7 | Anthracene | ND | 0.10 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | 1.7 | 0.052 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | 2.3 | 0.10 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | 3.7 | 0.052 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 2.6 | 0.10 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | 1.5 | 0.10 | ug/l | |
| 218-01-9 | Chrysene | 2.5 | 0.10 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.0 | 0.10 | ug/l | |
| 206-44-0 | Fluoranthene | 3.2 | 0.10 | ug/l | |
| 86-73-7 | Fluorene | ND | 0.10 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2.3 | 0.10 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.21 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.10 | ug/l | |
| 85-01-8 | Phenanthrene | 0.78 | 0.052 | ug/l | |
| 129-00-0 | Pyrene | 2.5 | 0.10 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 84% | | 30-130% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 30-130% |
| 1718-51-0 | Terphenyl-d14 | 90% | | 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:** MW-2
**Lab Sample ID:** MC21113-1 **Date Sampled:** 05/23/13
**Matrix:** AQ - Ground Water **Date Received:** 05/23/13
**Method:** SW846 8015 **Percent Solids:** n/a
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | WX67294.D | 1 | 05/30/13 | TB | n/a | n/a | GWX3213 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| | TPH-GRO (VOA) | 0.172 | 0.10 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 92% | | 60-135% |

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:** MW-2
**Lab Sample ID:** MC21113-1
**Matrix:** AQ - Ground Water
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Date Sampled:** 05/23/13
**Date Received:** 05/23/13
**Percent Solids:** n/a

**Total Metals Analysis**

| Analyte | Result | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Arsenic | 11.8 | 4.0 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Cadmium | < 4.0 | 4.0 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Chromium | 27.4 | 10 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Copper | < 25 | 25 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Iron | 66300 | 100 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Lead | 10.7 | 5.0 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Mercury | 0.49 | 0.20 | ug/l | 1 | 05/31/13 | 06/04/13 | EAL | SW846 7470A [2] | SW846 7470A [4] |
| Nickel | < 40 | 40 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Selenium | < 10 | 10 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Silver | < 5.0 | 5.0 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |
| Zinc | 20.4 | 20 | ug/l | 1 | 05/28/13 | 05/28/13 | EAL | SW846 6010C [1] | SW846 3010A [3] |

(1) Instrument QC Batch: MA15669
(2) Instrument QC Batch: MA15687
(3) Prep QC Batch: MP21062
(4) Prep QC Batch: MP21095

RL = Reporting Limit

# Report of Analysis





**Client Sample ID:** MW-2
**Lab Sample ID:** MC21113-1
**Matrix:** AQ - Ground Water
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Date Sampled:** 05/23/13
**Date Received:** 05/23/13
**Percent Solids:** n/a

**General Chemistry**

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|---|---|---|---|---|---|---|---|
| Chloride | 1970 | 100 | mg/l | 100 | 05/31/13 | MC | SM21 4500CL C |
| Chromium, Hexavalent | < 0.010 | 0.010 | mg/l | 1 | 05/24/13 06:35 | MA | SW846 7196A |
| Chromium, Trivalent [a] | 0.025 | 0.020 | mg/l | 1 | 05/28/13 19:51 | EAL | 6010/7196A M/200.7 |
| Solids, Total Suspended | 638 | 8.0 | mg/l | 2 | 05/28/13 | BF | SM21 2540D |
| Total Residual Chlorine [b] | < 0.050 | 0.050 | mg/l | 1 | 05/24/13 11:22 | CF | SM21 4500CL F |

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Analysis performed past the required 15 minutes of collection time/holding time.

RL = Reporting Limit

New England ACCUTEST LABORATORIES



## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

# Parameter Certifications



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

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



| Parameter | CAS# | Method | Mat | Certification Status |
|---|---|---|---|---|
| Chloride | 16887-00-6 | **SM21 4500CL C** | 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. |

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 #: MC21113

**Client / Reporting Information**

Company Name: FuelsTech Ltd.
Street Address: 2 Merchant St. suite 2
City: Sharon State: MA Zip: 02067
Project Contact: Pat Corcoran E-mail: Pcorcoran@envirotrac.com
Phone #: 781-753-0074 Fax #:
Sampler(s) Name(s): Phone #:

**Project Information**

Project Name: Sunoco Canton
Street: 702 Neponset St.
City: Canton, MA
Project#:
Client PO#:
Project Manager: Patrick Corcoran

**Billing Information ( If different from Report to)**

Company Name:
Street Address:
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 | Bisulfate | TSS, TRC, and chlorine | TPH-GRO and VOCs by 8260 | SVOC (PAHs only) by 8270 | Chromium III and VI | Total Metals (Sb, As, Cd, Cu, Pb, Hg, Se, Ag, Zn, Fe, Ni) | Dissolved Metals (Sb, As, Cd, Cu, Pb, Hg, Se, Ag, Zn, Fe, Ni) | | | Matrix Codes / LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1F | MW-2 | | 5/23/13 | 10:00 | FM | GW | 15 | 6 | | 2 | | 7 | | | | | X | X | X | X | X | (1M) X | (1M) X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1A, SD, WI, 9C |

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; Oil - 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)**

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

**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**

- Bill to Station Sunoco Canton
- Hold Dissolved Metals samples until further notice.

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 | | 5/23/13 13:30 | 1 | 2 | | 2 |
| 3 | | | 3 | 4 | | 4 |
| 5 | | | 5 | | | |

Custody Seal #: [ ] Intact [ ] Not Intact | Preserved where applicable: [ ] | On Ice: [x] | Cooler Temp.: 0.8C

## MC21113: Chain of Custody
## Page 1 of 2

# Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC21113 **Client:** TRAC **Immediate Client Services Action Required:** No

**Date / Time Received:** 5/23/2013 **Delivery Method:** **Client Service Action Required at Login:** No

**Project:** TRAC **No. Coolers:** 1 **Airbill #'s:**

| 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 Preservation | 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



**MC21113: 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 #: | MC21113 |
| Project Location: | ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA | MADEP RTN | None |

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC21113-1

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 (X) 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:<br>a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | ☑ Yes | ☐ No |
| | b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | ☑ Yes | ☐ No |
| **F** | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | ☑ Yes | ☐ 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:** **06/10/2013**

# Internal Sample Tracking Chronicle

Sunoco

**Job No:** MC21113

ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA



| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| MC21113-1 MW-2 | Collected: 23-MAY-13 10:00 By: FM | | Received: 23-MAY-13 By: BA | | | |
| MC21113-1 | SW846 7196A | 24-MAY-13 06:35 | MA | | | XCR |
| MC21113-1 | SM21 4500CL F | 24-MAY-13 11:22 | CF | | | TRC |
| MC21113-1 | SM21 2540D | 28-MAY-13 | BF | | | TSS |
| MC21113-1 | SW846 6010C | 28-MAY-13 19:51 | EAL | 28-MAY-13 | DA | AG,AS,CD,CR,CU,FE,NI,PB,SB,SE,ZN |
| MC21113-1 | 6010/7196A M/200.7 | 28-MAY-13 19:51 | EAL | | | CR3 |
| MC21113-1 | SW846 8015 | 30-MAY-13 12:04 | TB | | | V8015GRO |
| MC21113-1 | SM21 4500CL C | 31-MAY-13 | MC | | | CHL |
| MC21113-1 | SW846 8270C BY SIM | 03-JUN-13 21:50 | KR | 28-MAY-13 | AJ | B8270SIMPAH |
| MC21113-1 | SW846 7470A | 04-JUN-13 17:59 | EAL | 31-MAY-13 | EM | HG |
| MC21113-1 | SW846 8260B | 05-JUN-13 12:55 | AMY | | | V8260MCP |

New England ACCUTEST LABORATORIES

## GC/MS Volatiles



### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-MB | V19611.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 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 | |
| 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 | |

# Method Blank Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-MB | V19611.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 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 | 1.0 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 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 | |

# Method Blank Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-MB | V19611.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

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

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 70-130% |
| 2037-26-5 | Toluene-D8 | 107% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 70-130% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-BS | V19607.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |
| MSV766-BSD | V19608.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 50 | 48.4 | 97 | 45.2 | 90 | 7 | 70-130/25 |
| 71-43-2 | Benzene | 50 | 54.1 | 108 | 48.9 | 98 | 10 | 70-130/25 |
| 108-86-1 | Bromobenzene | 50 | 63.6 | 127 | 57.7 | 115 | 10 | 70-130/25 |
| 74-97-5 | Bromochloromethane | 50 | 52.3 | 105 | 46.9 | 94 | 11 | 70-130/25 |
| 75-27-4 | Bromodichloromethane | 50 | 52.1 | 104 | 46.4 | 93 | 12 | 70-130/25 |
| 75-25-2 | Bromoform | 50 | 48.6 | 97 | 45.1 | 90 | 7 | 70-130/25 |
| 74-83-9 | Bromomethane | 50 | 57.3 | 115 | 49.9 | 100 | 14 | 70-130/25 |
| 78-93-3 | 2-Butanone (MEK) | 50 | 50.4 | 101 | 46.5 | 93 | 8 | 70-130/25 |
| 104-51-8 | n-Butylbenzene | 50 | 58.7 | 117 | 51.0 | 102 | 14 | 70-130/25 |
| 135-98-8 | sec-Butylbenzene | 50 | 59.4 | 119 | 53.4 | 107 | 11 | 70-130/25 |
| 98-06-6 | tert-Butylbenzene | 50 | 62.6 | 125 | 56.0 | 112 | 11 | 70-130/25 |
| 75-15-0 | Carbon disulfide | 50 | 50.3 | 101 | 44.5 | 89 | 12 | 70-130/25 |
| 56-23-5 | Carbon tetrachloride | 50 | 48.8 | 98 | 43.4 | 87 | 12 | 70-130/25 |
| 108-90-7 | Chlorobenzene | 50 | 56.2 | 112 | 50.5 | 101 | 11 | 70-130/25 |
| 75-00-3 | Chloroethane | 50 | 58.1 | 116 | 49.9 | 100 | 15 | 70-130/25 |
| 67-66-3 | Chloroform | 50 | 53.9 | 108 | 47.6 | 95 | 12 | 70-130/25 |
| 74-87-3 | Chloromethane | 50 | 59.9 | 120 | 52.4 | 105 | 13 | 70-130/25 |
| 95-49-8 | o-Chlorotoluene | 50 | 61.9 | 124 | 55.5 | 111 | 11 | 70-130/25 |
| 106-43-4 | p-Chlorotoluene | 50 | 61.6 | 123 | 55.5 | 111 | 10 | 70-130/25 |
| 108-20-3 | Di-Isopropyl ether | 50 | 55.6 | 111 | 49.3 | 99 | 12 | 70-130/25 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 48.3 | 97 | 46.4 | 93 | 4 | 70-130/25 |
| 124-48-1 | Dibromochloromethane | 50 | 52.2 | 104 | 47.9 | 96 | 9 | 70-130/25 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 55.6 | 111 | 51.7 | 103 | 7 | 70-130/25 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 60.9 | 122 | 55.1 | 110 | 10 | 70-130/25 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 63.0 | 126 | 57.5 | 115 | 9 | 70-130/25 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 52.8 | 106 | 47.8 | 96 | 10 | 70-130/25 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 45.5 | 91 | 40.4 | 81 | 12 | 70-130/25 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 53.8 | 108 | 47.8 | 96 | 12 | 70-130/25 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 48.4 | 97 | 43.4 | 87 | 11 | 70-130/25 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 57.3 | 115 | 50.5 | 101 | 13 | 70-130/25 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 58.8 | 118 | 52.7 | 105 | 11 | 70-130/25 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 55.3 | 111 | 48.9 | 98 | 12 | 70-130/25 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 55.5 | 111 | 50.1 | 100 | 10 | 70-130/25 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 55.9 | 112 | 51.2 | 102 | 9 | 70-130/25 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 49.4 | 99 | 43.7 | 87 | 12 | 70-130/25 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 55.9 | 112 | 50.3 | 101 | 11 | 70-130/25 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-BS | V19607.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |
| MSV766-BSD | V19608.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 50.1 | 100 | 45.5 | 91 | 10 | 70-130/25 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 52.3 | 105 | 47.4 | 95 | 10 | 70-130/25 |
| 123-91-1 | 1,4-Dioxane | 250 | 246 | 98 | 221 | 88 | 11 | 70-130/25 |
| 60-29-7 | Ethyl Ether | 50 | 47.9 | 96 | 54.9 | 110 | 14 | 70-130/25 |
| 100-41-4 | Ethylbenzene | 50 | 59.8 | 120 | 53.7 | 107 | 11 | 70-130/25 |
| 87-68-3 | Hexachlorobutadiene | 50 | 58.2 | 116 | 52.5 | 105 | 10 | 70-130/25 |
| 591-78-6 | 2-Hexanone | 50 | 46.8 | 94 | 44.8 | 90 | 4 | 70-130/25 |
| 98-82-8 | Isopropylbenzene | 50 | 63.0 | 126 | 55.9 | 112 | 12 | 70-130/25 |
| 99-87-6 | p-Isopropyltoluene | 50 | 60.2 | 120 | 53.1 | 106 | 13 | 70-130/25 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 49.0 | 98 | 45.0 | 90 | 9 | 70-130/25 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 50 | 47.9 | 96 | 45.3 | 91 | 6 | 70-130/25 |
| 74-95-3 | Methylene bromide | 50 | 52.6 | 105 | 47.4 | 95 | 10 | 70-130/25 |
| 75-09-2 | Methylene chloride | 50 | 54.3 | 109 | 48.8 | 98 | 11 | 70-130/25 |
| 91-20-3 | Naphthalene | 50 | 54.6 | 109 | 53.4 | 107 | 2 | 70-130/25 |
| 103-65-1 | n-Propylbenzene | 50 | 59.2 | 118 | 53.1 | 106 | 11 | 70-130/25 |
| 100-42-5 | Styrene | 50 | 56.8 | 114 | 51.2 | 102 | 10 | 70-130/25 |
| 994-05-8 | tert-Amyl Methyl Ether | 50 | 47.8 | 96 | 44.6 | 89 | 7 | 70-130/25 |
| 75-65-0 | Tert Butyl Alcohol | 500 | 539 | 108 | 505 | 101 | 7 | 70-130/25 |
| 637-92-3 | tert-Butyl Ethyl Ether | 50 | 53.3 | 107 | 48.8 | 98 | 9 | 70-130/25 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 51.5 | 103 | 46.9 | 94 | 9 | 70-130/25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 55.1 | 110 | 51.1 | 102 | 8 | 70-130/25 |
| 127-18-4 | Tetrachloroethene | 50 | 54.9 | 110 | 49.2 | 98 | 11 | 70-130/25 |
| 109-99-9 | Tetrahydrofuran | 50 | 47.3 | 95 | 43.9 | 88 | 7 | 70-130/25 |
| 108-88-3 | Toluene | 50 | 64.1 | 128 | 57.8 | 116 | 10 | 70-130/25 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 57.0 | 114 | 55.1 | 110 | 3 | 70-130/25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 57.9 | 116 | 53.6 | 107 | 8 | 70-130/25 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 53.0 | 106 | 46.7 | 93 | 13 | 70-130/25 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 53.2 | 106 | 48.2 | 96 | 10 | 70-130/25 |
| 79-01-6 | Trichloroethene | 50 | 55.4 | 111 | 49.5 | 99 | 11 | 70-130/25 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.3 | 89 | 37.8 | 76 | 16 | 70-130/25 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 54.8 | 110 | 50.5 | 101 | 8 | 70-130/25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 60.6 | 121 | 54.7 | 109 | 10 | 70-130/25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 55.4 | 111 | 49.0 | 98 | 12 | 70-130/25 |
| 75-01-4 | Vinyl chloride | 50 | 46.2 | 92 | 40.0 | 80 | 14 | 70-130/25 |
| | m,p-Xylene | 100 | 129 | 129 | 116 | 116 | 11 | 70-130/25 |
| 95-47-6 | o-Xylene | 50 | 60.9 | 122 | 55.3 | 111 | 10 | 70-130/25 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| MSV766-BS | V19607.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |
| MSV766-BSD | V19608.D | 1 | 06/05/13 | AMY | n/a | n/a | MSV766 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

MC21113-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 1330-20-7 | Xylene (total) | 150 | 190 | 127 | 172 | 115 | 10 | 70-130/25 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 93% | 70-130% |
| 2037-26-5 | Toluene-D8 | 109% | 108% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 111% | 111% | 70-130% |

* = Outside of Control Limits.

# Volatile Internal Standard Area Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Check Std:** MSV766-CC762 **Injection Date:** 06/05/13
**Lab File ID:** V19606.D **Injection Time:** 08:04
**Instrument ID:** GCMSV **Method:** SW846 8260B

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 816231 | 6.55 | 1271761 | 7.74 | 671500 | 11.08 | 745442 | 13.29 | 179075 | 3.51 |
| Upper Limit [a] | 1632462 | 7.05 | 2543522 | 8.24 | 1343000 | 11.58 | 1490884 | 13.79 | 358150 | 4.01 |
| Lower Limit [b] | 408116 | 6.05 | 635881 | 7.24 | 335750 | 10.58 | 372721 | 12.79 | 89538 | 3.01 |
| **Lab Sample ID** | **IS 1 AREA** | **RT** | **IS 2 AREA** | **RT** | **IS 3 AREA** | **RT** | **IS 4 AREA** | **RT** | **IS 5 AREA** | **RT** |
| MSV766-BS | 805070 | 6.55 | 1246229 | 7.74 | 658768 | 11.07 | 730566 | 13.29 | 213040 | 3.51 |
| MSV766-BSD | 903530 | 6.55 | 1383308 | 7.74 | 725099 | 11.07 | 804906 | 13.29 | 244422 | 3.51 |
| MSV766-MB | 686898 | 6.55 | 1140287 | 7.74 | 602890 | 11.07 | 655945 | 13.29 | 218128 | 3.51 |
| ZZZZZZ | 660516 | 6.55 | 1092523 | 7.74 | 587669 | 11.07 | 634740 | 13.29 | 204447 | 3.50 |
| ZZZZZZ | 659724 | 6.56 | 1115181 | 7.74 | 597706 | 11.07 | 642954 | 13.29 | 206228 | 3.51 |
| ZZZZZZ | 682463 | 6.56 | 1081490 | 7.74 | 582235 | 11.07 | 620079 | 13.29 | 193838 | 3.51 |
| ZZZZZZ | 590661 | 6.56 | 1013638 | 7.74 | 558638 | 11.07 | 595717 | 13.29 | 176993 | 3.51 |
| MC21113-1 | 517820 | 6.56 | 888162 | 7.74 | 488331 | 11.08 | 540327 | 13.29 | 163767 | 3.51 |
| MC21183-5 | 649453 | 6.56 | 1106878 | 7.74 | 613960 | 11.08 | 665585 | 13.29 | 191195 | 3.51 |
| ZZZZZZ | 583421 | 6.56 | 1008589 | 7.74 | 555073 | 11.08 | 594376 | 13.29 | 175696 | 3.51 |
| ZZZZZZ | 646401 | 6.55 | 1046501 | 7.74 | 558587 | 11.07 | 633449 | 13.29 | 177104 | 3.50 |
| ZZZZZZ | 468599 | 6.56 | 783467 | 7.74 | 428400 | 11.08 | 460587 | 13.29 | 142391 | 3.51 |
| ZZZZZZ | 532321 | 6.56 | 883062 | 7.74 | 483853 | 11.08 | 540318 | 13.29 | 156456 | 3.51 |
| ZZZZZZ | 683026 | 6.56 | 1129922 | 7.74 | 605521 | 11.08 | 676863 | 13.29 | 206899 | 3.51 |
| ZZZZZZ | 692419 | 6.56 | 1142222 | 7.74 | 600185 | 11.08 | 668939 | 13.29 | 204148 | 3.52 |
| MC21183-5MS | 726865 | 6.55 | 1124154 | 7.74 | 596916 | 11.08 | 670397 | 13.29 | 201805 | 3.50 |
| MC21183-5MSD | 799298 | 6.56 | 1229251 | 7.74 | 647380 | 11.08 | 728257 | 13.29 | 231026 | 3.50 |
| ZZZZZZ | 716838 | 6.56 | 1192718 | 7.74 | 629549 | 11.08 | 692166 | 13.29 | 217184 | 3.50 |
| ZZZZZZ | 593273 | 6.56 | 966814 | 7.74 | 525469 | 11.08 | 554563 | 13.29 | 167754 | 3.50 |
| ZZZZZZ | 645942 | 6.56 | 1066135 | 7.75 | 578139 | 11.08 | 606604 | 13.29 | 185938 | 3.51 |
| ZZZZZZ | 655344 | 6.56 | 1099904 | 7.74 | 592959 | 11.08 | 663991 | 13.29 | 189490 | 3.51 |
| ZZZZZZ | 692256 | 6.56 | 1138616 | 7.74 | 606165 | 11.08 | 679769 | 13.29 | 196720 | 3.51 |

**IS 1** = Pentafluorobenzene
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5
**IS 4** = 1,4-Dichlorobenzene-d4
**IS 5** = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Volatile Surrogate Recovery Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Method:** SW846 8260B **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 |
|---|---|---|---|---|
| MC21113-1 | V19617.D | 111.0 | 110.0 | 108.0 |
| MSV766-BS | V19607.D | 96.0 | 109.0 | 111.0 |
| MSV766-BSD | V19608.D | 93.0 | 108.0 | 111.0 |
| MSV766-MB | V19611.D | 104.0 | 107.0 | 107.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 70-130% |
| **S2** = Toluene-D8 | 70-130% |
| **S3** = 4-Bromofluorobenzene | 70-130% |

New England ACCUTEST LABORATORIES

## GC/MS Semi-volatiles

# QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP33362-MB | I83895.D | 1 | 06/03/13 | KR | 05/28/13 | OP33362 | MSI3119 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270C BY SIM

MC21113-1

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.10 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 0.10 | ug/l | |
| 120-12-7 | Anthracene | ND | 0.10 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 0.050 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 0.10 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.050 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 0.10 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.10 | ug/l | |
| 218-01-9 | Chrysene | ND | 0.10 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.10 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 0.10 | ug/l | |
| 86-73-7 | Fluorene | ND | 0.10 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.10 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.20 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.10 | ug/l | |
| 85-01-8 | Phenanthrene | 0.029 | 0.050 | ug/l | J |
| 129-00-0 | Pyrene | ND | 0.10 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 86% | 30-130% |
| 321-60-8 | 2-Fluorobiphenyl | 83% | 30-130% |
| 1718-51-0 | Terphenyl-d14 | 98% | 30-130% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP33362-BS | I83896.D | 1 | 06/03/13 | KR | 05/28/13 | OP33362 | MSI3119 |
| OP33362-BSD | I83897.D | 1 | 06/03/13 | KR | 05/28/13 | OP33362 | MSI3119 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270C BY SIM

MC21113-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 50 | 39.2 | 78 | 42.1 | 84 | 7 | 40-140/30 |
| 208-96-8 | Acenaphthylene | 50 | 28.7 | 57 | 31.0 | 62 | 8 | 40-140/30 |
| 120-12-7 | Anthracene | 50 | 43.1 | 86 | 43.7 | 87 | 1 | 40-140/30 |
| 56-55-3 | Benzo(a)anthracene | 50 | 49.7 | 99 | 50.9 | 102 | 2 | 40-140/30 |
| 50-32-8 | Benzo(a)pyrene | 50 | 39.7 | 79 | 40.2 | 80 | 1 | 40-140/30 |
| 205-99-2 | Benzo(b)fluoranthene | 50 | 44.1 | 88 | 45.7 | 91 | 4 | 40-140/30 |
| 191-24-2 | Benzo(g,h,i)perylene | 50 | 41.8 | 84 | 42.8 | 86 | 2 | 40-140/30 |
| 207-08-9 | Benzo(k)fluoranthene | 50 | 44.8 | 90 | 44.9 | 90 | 0 | 40-140/30 |
| 218-01-9 | Chrysene | 50 | 48.0 | 96 | 48.8 | 98 | 2 | 40-140/30 |
| 53-70-3 | Dibenzo(a,h)anthracene | 50 | 44.7 | 89 | 45.4 | 91 | 2 | 40-140/30 |
| 206-44-0 | Fluoranthene | 50 | 48.3 | 97 | 48.8 | 98 | 1 | 40-140/30 |
| 86-73-7 | Fluorene | 50 | 45.0 | 90 | 46.6 | 93 | 3 | 40-140/30 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 50 | 43.7 | 87 | 44.4 | 89 | 2 | 40-140/30 |
| 91-57-6 | 2-Methylnaphthalene | 50 | 26.3 | 53 | 28.4 | 57 | 8 | 40-140/30 |
| 91-20-3 | Naphthalene | 50 | 27.6 | 55 | 32.8 | 66 | 17 | 40-140/30 |
| 85-01-8 | Phenanthrene | 50 | 45.6 | 91 | 46.8 | 94 | 3 | 40-140/30 |
| 129-00-0 | Pyrene | 50 | 46.3 | 93 | 47.0 | 94 | 2 | 40-140/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 86% | 88% | 30-130% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | 77% | 30-130% |
| 1718-51-0 | Terphenyl-d14 | 92% | 95% | 30-130% |

* = Outside of Control Limits.

# Semivolatile Internal Standard Area Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Check Std:** MSI3119-CC3096 **Injection Date:** 06/03/13
**Lab File ID:** I83889.D **Injection Time:** 14:55
**Instrument ID:** GCMSI **Method:** SW846 8270C BY SIM

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT | IS 6 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 98157 | 3.22 | 258034 | 4.18 | 150409 | 5.57 | 273904 | 6.78 | 226105 | 9.49 | 404216 | 10.88 |
| Upper Limit [a] | 196314 | 3.72 | 516068 | 4.68 | 300818 | 6.07 | 547808 | 7.28 | 452210 | 9.99 | 808432 | 11.38 |
| Lower Limit [b] | 49079 | 2.72 | 129017 | 3.68 | 75205 | 5.07 | 136952 | 6.28 | 113053 | 8.99 | 202108 | 10.38 |
| **Lab Sample ID** | **IS 1 AREA** | **RT** | **IS 2 AREA** | **RT** | **IS 3 AREA** | **RT** | **IS 4 AREA** | **RT** | **IS 5 AREA** | **RT** | **IS 6 AREA** | **RT** |
| OP33286-MB | 94316 | 3.21 | 248089 | 4.18 | 140339 | 5.57 | 251527 | 6.78 | 211526 | 9.49 | 380467 | 10.88 |
| OP33286-BS | 88487 | 3.21 | 236354 | 4.18 | 133780 | 5.57 | 241594 | 6.78 | 199943 | 9.50 | 351653 | 10.88 |
| ZZZZZZ | 94413 | 3.21 | 249497 | 4.18 | 139951 | 5.56 | 248940 | 6.78 | 213329 | 9.49 | 383468 | 10.88 |
| ZZZZZZ | 97841 | 3.21 | 257026 | 4.18 | 144275 | 5.57 | 259023 | 6.78 | 218646 | 9.49 | 388416 | 10.88 |
| ZZZZZZ | 89199 | 3.21 | 239600 | 4.18 | 136143 | 5.56 | 243834 | 6.78 | 206705 | 9.49 | 375912 | 10.88 |
| OP33362-MB | 91888 | 3.21 | 245763 | 4.18 | 140116 | 5.56 | 242996 | 6.78 | 208310 | 9.49 | 371948 | 10.88 |
| OP33362-BS | 103439 | 3.21 | 269541 | 4.18 | 156316 | 5.57 | 278256 | 6.79 | 225568 | 9.50 | 400962 | 10.88 |
| OP33362-BSD | 88499 | 3.21 | 232200 | 4.18 | 134493 | 5.57 | 240387 | 6.78 | 195095 | 9.49 | 344749 | 10.88 |
| ZZZZZZ | 96940 | 3.21 | 255342 | 4.18 | 143151 | 5.56 | 250042 | 6.78 | 209730 | 9.49 | 380801 | 10.88 |
| ZZZZZZ | 86456 | 3.21 | 233232 | 4.18 | 135271 | 5.58 | 237869 | 6.80 | 197429 | 9.49 | 340235 | 10.88 |
| ZZZZZZ | 91341 | 3.21 | 238169 | 4.18 | 137304 | 5.56 | 242144 | 6.78 | 206047 | 9.49 | 370140 | 10.88 |
| ZZZZZZ | 95577 | 3.21 | 252090 | 4.18 | 142495 | 5.57 | 254436 | 6.78 | 214483 | 9.49 | 367213 | 10.88 |
| ZZZZZZ | 88837 | 3.21 | 236599 | 4.18 | 138033 | 5.56 | 236505 | 6.78 | 204695 | 9.49 | 361294 | 10.88 |
| ZZZZZZ | 85255 | 3.21 | 228977 | 4.18 | 130143 | 5.56 | 230809 | 6.78 | 200306 | 9.49 | 354839 | 10.88 |
| ZZZZZZ | 90870 | 3.21 | 245182 | 4.18 | 139839 | 5.56 | 244612 | 6.78 | 204830 | 9.49 | 356590 | 10.88 |
| ZZZZZZ | 86789 | 3.21 | 226976 | 4.18 | 132638 | 5.57 | 240603 | 6.78 | 203828 | 9.49 | 358820 | 10.88 |
| ZZZZZZ | 84105 | 3.21 | 225352 | 4.18 | 129926 | 5.56 | 234056 | 6.78 | 196412 | 9.49 | 341563 | 10.88 |
| MC21113-1 | 80965 | 3.21 | 217446 | 4.18 | 125238 | 5.56 | 224016 | 6.78 | 184023 | 9.49 | 316632 | 10.88 |
| ZZZZZZ | 84573 | 3.21 | 227182 | 4.18 | 131467 | 5.56 | 231391 | 6.78 | 199195 | 9.49 | 349188 | 10.88 |
| ZZZZZZ | 79632 | 3.21 | 211678 | 4.18 | 119872 | 5.57 | 213370 | 6.78 | 180964 | 9.49 | 321954 | 10.88 |
| OP33247-MS | 100138 | 3.21 | 263278 | 4.18 | 154688 | 5.57 | 273904 | 6.79 | 222255 | 9.50 | 395619 | 10.88 |
| OP33247-MSD | 98300 | 3.21 | 258374 | 4.18 | 151740 | 5.57 | 270648 | 6.79 | 224877 | 9.50 | 391703 | 10.88 |
| MC21000-7 | 97108 | 3.22 | 260299 | 4.18 | 149891 | 5.56 | 263938 | 6.78 | 234085 | 9.49 | 405471 | 10.88 |
| ZZZZZZ | 82496 | 3.21 | 216671 | 4.18 | 123796 | 5.57 | 221232 | 6.79 | 187839 | 9.50 | 317331 | 10.89 |
| ZZZZZZ | 83938 | 3.22 | 224826 | 4.18 | 129225 | 5.57 | 237139 | 6.79 | 200821 | 9.50 | 346104 | 10.88 |
| ZZZZZZ | 83317 | 3.21 | 231858 | 4.18 | 135364 | 5.57 | 237959 | 6.78 | 203004 | 9.49 | 354912 | 10.88 |
| ZZZZZZ | 71012 | 3.21 | 188352 | 4.18 | 121287 | 5.57 | 204942 | 6.79 | 181001 | 9.50 | 310129 | 10.89 |
| ZZZZZZ | 74918 | 3.21 | 203213 | 4.18 | 128823 | 5.57 | 219756 | 6.79 | 185457 | 9.50 | 313520 | 10.89 |
| ZZZZZZ | 74852 | 3.21 | 203433 | 4.18 | 121705 | 5.57 | 214426 | 6.78 | 188093 | 9.49 | 328759 | 10.88 |

**IS 1** = 1,4-Dichlorobenzene-d4
**IS 2** = Naphthalene-d8
**IS 3** = Acenaphthene-D10
**IS 4** = Phenanthrene-d10
**IS 5** = Chrysene-d12

# Semivolatile Internal Standard Area Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| | | | |
|---|---|---|---|
| **Check Std:** | MSI3119-CC3096 | **Injection Date:** | 06/03/13 |
| **Lab File ID:** | I83889.D | **Injection Time:** | 14:55 |
| **Instrument ID:** | GCMSI | **Method:** | SW846 8270C BY SIM |

| Lab Sample ID | IS 1 | | IS 2 | | IS 3 | | IS 4 | | IS 5 | | IS 6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AREA | RT | AREA | RT | AREA | RT | AREA | RT | AREA | RT | AREA | RT |

**IS 6** = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Semivolatile Surrogate Recovery Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Method:** SW846 8270C BY SIM **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 |
|---|---|---|---|---|
| MC21113-1 | I83907.D | 84.0 | 74.0 | 90.0 |
| OP33362-BS | I83896.D | 86.0 | 74.0 | 92.0 |
| OP33362-BSD | I83897.D | 88.0 | 77.0 | 95.0 |
| OP33362-MB | I83895.D | 86.0 | 83.0 | 98.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Nitrobenzene-d5 | 30-130% |
| **S2** = 2-Fluorobiphenyl | 30-130% |
| **S3** = Terphenyl-d14 | 30-130% |

New England ACCUTEST LABORATORIES

## GC Volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GWX3213-MB | WX67292.D | 1 | 05/30/13 | TB | n/a | n/a | GWX3213 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015

MC21113-1

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| | TPH-GRO (VOA) | ND | 0.10 | mg/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 90% | 60-135% |

# Blank Spike Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| GWX3213-BSP | WX67293.D | 1 | 05/30/13 | TB | n/a | n/a | GWX3213 |

**The QC reported here applies to the following samples:** **Method:** SW846 8015

MC21113-1

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---|---|---|---|---|---|
| | TPH-GRO (VOA) | 0.4 | 0.417 | 104 | 68-134 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 92% | 60-135% |

* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary



**Job Number:** MC21113
**Account:** SUNOCOSS Sunoco
**Project:** ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

**Method:** SW846 8015 **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 [a] |
|---|---|---|
| MC21113-1 | WX67294.D | 92.0 |
| GWX3213-BSP | WX67293.D | 92.0 |
| GWX3213-MB | WX67292.D | 90.0 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 2,3,4-Trifluorotoluene | 60-135% |

(a) Recovery from GC signal #1

New England ACCUTEST LABORATORIES

## Metals Analysis

# QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/13

| Metal | RL | IDL | MDL | MB raw | final |
|---|---|---|---|---|---|
| Aluminum | 200 | 17 | 40 | | |
| Antimony | 6.0 | 1.2 | 1.9 | -0.60 | <6.0 |
| Arsenic | 4.0 | 1.1 | 2.9 | -1.2 | <4.0 |
| Barium | 50 | .43 | .81 | | |
| Beryllium | 4.0 | .17 | .25 | | |
| Boron | 100 | .47 | 1.4 | | |
| Cadmium | 4.0 | .14 | .5 | -0.20 | <4.0 |
| Calcium | 5000 | 15 | 38 | | |
| Chromium | 10 | .5 | 1.4 | 0.10 | <10 |
| Cobalt | 50 | .15 | .4 | | |
| Copper | 25 | .79 | 7 | -0.50 | <25 |
| Gold | 50 | 2.3 | 5 | | |
| Iron | 100 | 4 | 20 | -7.0 | <100 |
| Lead | 5.0 | .76 | 1.7 | -0.40 | <5.0 |
| Magnesium | 5000 | 53 | 59 | | |
| Manganese | 15 | .16 | .81 | | |
| Molybdenum | 100 | .25 | .77 | | |
| Nickel | 40 | .15 | .57 | -0.20 | <40 |
| Palladium | 50 | 2.3 | 7.6 | | |
| Platinum | 50 | 5.2 | 14 | | |
| Potassium | 5000 | 64 | 160 | | |
| Selenium | 10 | 1.7 | 4.8 | 0.0 | <10 |
| Silicon | 100 | 1.7 | 45 | | |
| Silver | 5.0 | .62 | 1 | -0.40 | <5.0 |
| Sodium | 5000 | 23 | 60 | | |
| Strontium | 10 | .2 | .26 | | |
| Thallium | 5.0 | .67 | 1.9 | | |
| Tin | 100 | .23 | 1.4 | | |
| Titanium | 50 | 1.9 | 1.8 | | |
| Tungsten | 100 | 7.3 | 16 | | |
| Vanadium | 10 | .95 | 2.8 | | |
| Zinc | 20 | .13 | .5 | -0.20 | <20 |
| Zirconium | 50 | 2.3 | 2.2 | | |

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

| Metal |
|---|

Associated samples MP21062: MC21113-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

| Prep Date: | | | 05/28/13 | | | | | 05/28/13 | |
|---|---|---|---|---|---|---|---|---|---|
| Metal | BSP Result | Spikelot MPICP | % Rec | QC Limits | BSD Result | Spikelot MPICP | % Rec | BSD RPD | QC Limit |
| Aluminum | | | | | | | | | |
| Antimony | 496 | 500 | 99.2 | 80-120 | 502 | 500 | 100.4 | 1.2 | 20 |
| Arsenic | 486 | 500 | 97.2 | 80-120 | 494 | 500 | 98.8 | 1.6 | 20 |
| Barium | anr | | | | | | | | |
| Beryllium | anr | | | | | | | | |
| Boron | anr | | | | | | | | |
| Cadmium | 513 | 500 | 102.6 | 80-120 | 521 | 500 | 104.2 | 1.5 | 20 |
| Calcium | | | | | | | | | |
| Chromium | 523 | 500 | 104.6 | 80-120 | 534 | 500 | 106.8 | 2.1 | 20 |
| Cobalt | | | | | | | | | |
| Copper | 461 | 500 | 92.2 | 80-120 | 463 | 500 | 92.6 | 0.4 | 20 |
| Gold | | | | | | | | | |
| Iron | 2020 | 2000 | 101.0 | 80-120 | 2040 | 2000 | 102.0 | 1.0 | 20 |
| Lead | 939 | 1000 | 93.9 | 80-120 | 948 | 1000 | 94.8 | 1.0 | 20 |
| Magnesium | | | | | | | | | |
| Manganese | | | | | | | | | |
| Molybdenum | | | | | | | | | |
| Nickel | 459 | 500 | 91.8 | 80-120 | 464 | 500 | 92.8 | 1.1 | 20 |
| Palladium | | | | | | | | | |
| Platinum | | | | | | | | | |
| Potassium | | | | | | | | | |
| Selenium | 498 | 500 | 99.6 | 80-120 | 505 | 500 | 101.0 | 1.4 | 20 |
| Silicon | | | | | | | | | |
| Silver | 212 | 200 | 106.0 | 80-120 | 217 | 200 | 108.5 | 2.3 | 20 |
| Sodium | | | | | | | | | |
| Strontium | | | | | | | | | |
| Thallium | anr | | | | | | | | |
| Tin | | | | | | | | | |
| Titanium | anr | | | | | | | | |
| Tungsten | | | | | | | | | |
| Vanadium | anr | | | | | | | | |
| Zinc | 511 | 500 | 102.2 | 80-120 | 519 | 500 | 103.8 | 1.6 | 20 |
| Zirconium | | | | | | | | | |

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

Associated samples MP21062: MC21113-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/13

| Metal | MC21124-1F Original | SDL 1:5 | %DIF | QC Limits |
|---|---|---|---|---|
| Aluminum | | | | |
| Antimony | 0.00 | 0.00 | NC | 0-10 |
| Arsenic | 4.00 | 0.00 | 100.0(a) | 0-10 |
| Barium | anr | | | |
| Beryllium | anr | | | |
| Boron | anr | | | |
| Cadmium | 0.00 | 0.00 | NC | 0-10 |
| Calcium | | | | |
| Chromium | 0.00 | 0.00 | NC | 0-10 |
| Cobalt | | | | |
| Copper | 0.00 | 0.00 | NC | 0-10 |
| Gold | | | | |
| Iron | 13000 | 12900 | 1.0 | 0-10 |
| Lead | 1.40 | 0.00 | 100.0(a) | 0-10 |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | 1.20 | 1.10 | 8.3 | 0-10 |
| Palladium | | | | |
| Platinum | | | | |
| Potassium | | | | |
| Selenium | 0.00 | 0.00 | NC | 0-10 |
| Silicon | | | | |
| Silver | 0.00 | 0.00 | NC | 0-10 |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | anr | | | |
| Tin | | | | |
| Titanium | anr | | | |
| Tungsten | | | | |
| Vanadium | anr | | | |
| Zinc | 3.40 | 3.20 | 5.9 | 0-10 |
| Zirconium | | | | |

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21062
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

Associated samples MP21062: MC21113-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21095
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/31/13

| Metal | RL | IDL | MDL | MB raw | final |
|---|---|---|---|---|---|
| Mercury | 0.20 | .052 | .067 | -0.0030 | <0.20 |

Associated samples MP21095: MC21113-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

QC Batch ID: MP21095
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/31/13 05/31/13

| Metal | BSP Result | Spikelot HGRWS1 | % Rec | QC Limits | BSD Result | Spikelot HGRWS1 | % Rec | BSD RPD | QC Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 3.3 | 3 | 110.0 | 80-120 | 3.2 | 3 | 106.7 | 3.1 | 20 |

Associated samples MP21095: MC21113-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

New England ACCUTEST LABORATORIES

General Chemistry

# QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|---|---|---|---|---|---|---|---|---|
| Chloride | GN43057 | 1.0 | 0.0 | mg/l | 10 | 10.3 | 103.0 | 80-120% |
| Chromium, Hexavalent | GN42963 | 0.010 | 0.0 | mg/l | .1 | 0.10 | 100.0 | 85-115% |
| Solids, Total Suspended | GN42985 | 4.0 | 0.0 | mg/l | | | | |
| Total Residual Chlorine | GN42966 | 0.050 | 0.0 | mg/l | 1 | 0.95 | 95.0 | 80-120% |

Associated Samples:
Batch GN42963: MC21113-1
Batch GN42966: MC21113-1
Batch GN42985: MC21113-1
Batch GN43057: MC21113-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC21113
Account: SUNOCOSS - Sunoco
Project: ENVTRAC: DUNS#00052746, Sunoco Canton, 702 Neponset Street, Canton, MA

| Analyte | Batch ID | Units | Spike Amount | BSD Result | RPD | QC Limit |
|---|---|---|---|---|---|---|
| Chromium, Hexavalent | GN42963 | mg/l | .1 | 0.10 | 0.0 | 20% |

Associated Samples:
Batch GN42963: MC21113-1
(*) Outside of QC limits

# APPENDIX C

nps.gov

National Park Service
U.S. Department of the Interior

# National Register of Historic Places

HOME
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## TITLE LIST DISPLAY

**From:** NPS Digital Library
**Term(s) Searched:** Massachusetts and canton
**Records Displayed:** 1 to 4 of 4

Go back to: Revise Search

Sort By: **Title** | Relevancy | Modified

- Canton Corner Historic District *[Image]* 7%
- Canton Viaduct *[Image]* 7%
- Green Hill Site *[Image]* 7%
- Redman Farm House *[Image]* 7%

Prev | 1 | Next

# Massachusetts Cultural Resource Information System

## MACRIS

MACRIS Search Results

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

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.A | Massachusetts School & Home for Crippled Children | | Canton | |
| CAN.B | Revere, Paul and Son Copper Works | | Canton | |
| CAN.C | Rising Sun Stove Polish Factory | | Canton | |
| CAN.D | Neponset Street Area | | Canton | |
| CAN.E | American Net and Twine Company Worker Housing | | Canton | |
| CAN.F | Neponset Cotton Mill District | | Canton | |
| CAN.G | Ponkapoag Brook Area | | Canton | |
| CAN.H | Draper Brothers Company | | Canton | |
| CAN.I | Washington Streetscape | | Canton | |
| CAN.J | Church and Washington Streets | | Canton | |
| CAN.K | Metropolitan Park System of Greater Boston | | Canton | |
| CAN.L | Canton Center | | Canton | |
| CAN.M | Blue Hills Multiple Resource Area | | Canton | |
| CAN.N | Canton Corner | | Canton | |
| CAN.O | Chase, John P. Estate | | Canton | |
| CAN.P | Washington Square | | Canton | |
| CAN.Q | Ponkapoag Golf Course | | Canton | |
| CAN.R | Canton Corner Historic District | | Canton | |
| CAN.AB | Pond Street Area | | Canton | |
| CAN.AC | Everett, J. Mason - Morse, Samuel V. Estates | | Canton | |
| CAN.AD | Kinsley Place Area | | Canton | |
| CAN.AF | Neponset Street Area | | Canton | |
| CAN.AG | Blue Hills Reservation Parkways | | Canton | |
| CAN.AH | Pakeen Farm | | Canton | |
| CAN.AI | Cedarholm Farm | | Canton | |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.916 | East Branch Workshop Site | | Canton | |
| CAN.917 | Green Hill Site | | Canton | |
| CAN.918 | Meadowlands Archaeological Site | | Canton | |
| CAN.919 | Burr Lane Indian Cemetery | | Canton | |
| CAN.155 | Beasly, William C. House | 12 Ames Ave | Canton | 1892 |
| CAN.156 | Seavey, Mary C. - Daly, William House | 16 Ames Ave | Canton | 1883 |
| CAN.157 | Leland, Dexter - Grimes, Charles House | 24 Ames Ave | Canton | 1848 |
| CAN.923 | Kinsley Iron Company Rail Spur Retaining Wall | 24 Ames Ave | Canton | 1844 |
| CAN.317 | Kinsley Iron and Machine Company Tool Shed | 29 Ames Ave | Canton | 1880 |
| CAN.311 | Kinsley Iron and Machine Company Worker Housing | 34 Ames Ave | Canton | 1850 |
| CAN.312 | Grimes, Charles House | 36 Ames Ave | Canton | 1915 |
| CAN.313 | Grimes, Charles - Grenham, Isabella House | 38 Ames Ave | Canton | 1918 |
| CAN.102 | American Net and Twine Company | Bay St | Canton | 1834 |
| CAN.105 | Boston and Providence Railroad Signalman's Shed | Beaumont St | Canton | 1900 |
| CAN.924 | Blue Hill River Road - Segment One | Blue Hill River Rd | Canton | 1897 |
| CAN.57 | Prowse, Montague House and Farm | 5 Blue Hill River Rd | Canton | 1923 |
| CAN.58 | Howe, Henry Saltonstall House | 11 Blue Hill River Rd | Canton | 1954 |
| CAN.61 | Brookwood Farm | 11 Blue Hill River Rd | Canton | 1820 |
| CAN.62 | Old Barn | 11 Blue Hill River Rd | Canton | 1700 |
| CAN.926 | Blue Hills Reservation Culvert System | Blue Hills Reserv | Canton | 1920 |
| CAN.905 | Stoughton Railroad Bridge over Bolivar Street | Bolivar St | Canton | 1929 |
| CAN.932 | Bolivar Street Bridge over Massapoag Brook | Bolivar St | Canton | 1915 |
| CAN.285 | Kingsley Iron and Machine Company Worker Housing | 58 Bolivar St | Canton | 1867 |
| CAN.89 | Ames, Oliver and Sons Shovel Manufactory | 160 Bolivar St | Canton | 1847 |
| CAN.314 | Reed, Franklin Double House | 457 Bolivar St | Canton | 1850 |
| CAN.315 | Smith, Emma B. - Snow, Stanley House | 467 Bolivar St | Canton | 1915 |
| CAN.367 | Reed, Franklin Jr. - Klasson, Karl House | 474 Bolivar St | Canton | 1876 |
| CAN.10 | Morse, Bethual - Reed, Franklin House | 548 Bolivar St | Canton | 1840 |
| CAN.90 | Capen, E. House | 17 Capen Pl | Canton | 1840 |
| CAN.301 | Holmes, Elbridge G. House | 24 Centre St | Canton | 1870 |
| CAN.295 | Rehill, Francis Carriage Barn | 25R Chapel St | Canton | 1870 |
| CAN.302 | Rehill, Francis House | 25 Chapel St | Canton | 1870 |
| CAN.902 | Chapman's Bridge | Chapman St | Canton | 1888 |
| CAN.22 | Draper, Robert Tenement | 38 Chapman St | Canton | 1865 |
| CAN.368 | First Parish Congregational Church Parsonage | 61 Chapman St | Canton | 1867 |
| CAN.21 | Bright, Samuel House | 62 Chapman St | Canton | 1836 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.215 | Bright, H. Horace House | 76 Chapman St | Canton | 1878 |
| CAN.172 | Draper, Thomas B. House | 87 Chapman St | Canton | 1882 |
| CAN.173 | Dunbar, Howard R. House | 90 Chapman St | Canton | 1906 |
| CAN.25 | Knitted Mattress Company | 105 Chapman St | Canton | 1890 |
| CAN.174 | Day, Lewis House | 110 Chapman St | Canton | 1870 |
| CAN.175 | Sumner, Larra W. House | 126 Chapman St | Canton | 1870 |
| CAN.65 | Sumner, George Frederick House | 129 Chapman St | Canton | 1875 |
| CAN.64 | | 145 Chapman St | Canton | 1920 |
| CAN.176 | Sumner, Charles House | 179 Chapman St | Canton | 1885 |
| CAN.177 | Hesketh, William House | 189 Chapman St | Canton | 1876 |
| CAN.178 | Capen, George P. House | 200 Chapman St | Canton | 1923 |
| CAN.179 | Wattles, Joseph W. House | 208 Chapman St | Canton | 1889 |
| CAN.180 | Hayes, Samuel B. House | 233 Chapman St | Canton | 1880 |
| CAN.181 | Wattles, Joseph W. III House | 240 Chapman St | Canton | 1919 |
| CAN.182 | Dunbar, M. House | 263 Chapman St | Canton | 1873 |
| CAN.183 | Wattles, Arthur S. House | 300A Chapman St | Canton | 1886 |
| CAN.184 | Notman, Frederick W. - Timmerman, Dwight House | 355 Chapman St | Canton | 1908 |
| CAN.185 | Clark, Marcus - Chapman, Oliver Smith House | 399 Chapman St | Canton | 1826 |
| CAN.343 | Spaulding, Corodon - Plunkett, Frank House | 447 Chapman St | Canton | 1855 |
| CAN.374 | Fillmore, Reinsford House | 477 Chapman St | Canton | 1898 |
| CAN.286 | Turner, Charles C. House | 503 Chapman St | Canton | 1893 |
| CAN.287 | White, Nathaniel S. House | 623 Chapman St | Canton | 1865 |
| CAN.241 | Dickie, R. K. Blacksmith Shop | 645-647 Chapman St | Canton | 1906 |
| CAN.284 | Dickie, R. K. Gulf Gas Station Office | 645-647 Chapman St | Canton | 1924 |
| CAN.91 | Canton Baptist Parsonage | 15 Church St | Canton | 1841 |
| CAN.66 | Canton Baptist Church | 21 Church St | Canton | 1836 |
| CAN.92 | South Canton Schoolhouse - Canton Armory | 22-24 Church St | Canton | 1837 |
| CAN.67 | Leonard, Caroline House | 31 Church St | Canton | 1840 |
| CAN.68 | Leonard, Caroline House | 33 Church St | Canton | 1840 |
| CAN.93 | Leonard, Winthrop House | 35 Church St | Canton | 1865 |
| CAN.365 | Gay, Ellis - Deane, Francis W. House Ell | 12 Danforth St | Canton | 1848 |
| CAN.900 | Dedham Street Bridge over Conrail | Dedham St | Canton | 1936 |
| CAN.911 | Dedham Street Bridge over Neponset River | Dedham St | Canton | 1936 |
| CAN.938 | Dedham Street Bridge over Neponset River | Dedham St | Canton | 2000 |
| CAN.939 | Dedham Street Bridge over MBTA - AMTRACK | Dedham St | Canton | 1995 |
| CAN.288 | Williams, John W. House | 18 Dedham St | Canton | 1874 |
| CAN.293 | Cronon, Jeremiah House | 35 Dedham St | Canton | 1870 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.294 | Hinton, Dr. William A. House | 154 Dedham St | Canton | 1930 |
| CAN.94 | Draper Brothers Textile Company Building #2 | 28 Draper Ln | Canton | 1869 |
| CAN.208 | Draper Brothers Textile Company Cable Bridgeway | 28 Draper Ln | Canton | 1925 |
| CAN.209 | Draper Brothers Textile Company Building #3 | 28 Draper Ln | Canton | 1860 |
| CAN.210 | Draper Brothers Textile Company Storage Sheds | 28 Draper Ln | Canton | 1880 |
| CAN.211 | Draper Brothers Textile Company Office | 28 Draper Ln | Canton | 1870 |
| CAN.212 | Draper Brothers Textile Company Shipping Building | 28 Draper Ln | Canton | 1920 |
| CAN.213 | Draper Brothers Textile Company Entrance Office | 28 Draper Ln | Canton | 1960 |
| CAN.214 | Morton Vacuum Brake Company Machine Shop | 28 Draper Ln | Canton | 1920 |
| CAN.909 | B & P Railroad Bridge over Dunbar Road | Dunbar Rd | Canton | 1901 |
| CAN.216 | Harrington, Andrew House | 31 Dunbar St | Canton | 1881 |
| CAN.44 | Reed, Gideon T. F. House | 35 Elm St | Canton | 1850 |
| CAN.370 | Cedarholm Farm | 48 Elm St | Canton | 1914 |
| CAN.371 | Cedarholm Farm Garage | 48 Elm St | Canton | 1914 |
| CAN.372 | Cedarholm Farm Horse Barn | 48 Elm St | Canton | 1914 |
| CAN.373 | Draper, James Barn | 48 Elm St | Canton | 1940 |
| CAN.274 | Macintosh, Adam Farm Worker Housing | 81 Elm St | Canton | 1866 |
| CAN.49 | Jordan, Capt. George - Macintosh, Adam House | 90 Elm St | Canton | 1791 |
| CAN.275 | Pakeen Farm - Cabot, Samuel House | 107 Elm St | Canton | 1902 |
| CAN.928 | Ponkapoag Stone Bridge | 107-109 Elm St | Canton | 1738 |
| CAN.929 | Old County Road | 107-109 Elm St | Canton | 1738 |
| CAN.930 | Old County Road Stone Walls | 107-109 Elm St | Canton | 1738 |
| CAN.931 | Pakeen Farm - Cabot, Samuel Formal Garden | 107 Elm St | Canton | 1904 |
| CAN.276 | Pakeen Farm - Cabot, Samuel Stable | 109 Elm St | Canton | 1902 |
| CAN.277 | Pakeen Farm - Cabot Garage - Blacksmith Shop | 109 Elm St | Canton | 1910 |
| CAN.54 | Puffer, Jonathan - Davenport, John House | 3 Farrington Ln | Canton | 1715 |
| CAN.377 | Lowery, Quincy House | 9 Flagstone Hill Terr | Canton | 1925 |
| CAN.937 | Green Lodge Street Bridge over Neponset River | Green Lodge St | Canton | 1931 |
| CAN.59 | | Green St | Canton | 1775 |
| CAN.925 | Blue Hills Reservation Parkways - Green Street | Green St | Canton | 1942 |
| CAN.320 | Sheep Farm Cottage | 30 Green St | Canton | 1910 |
| CAN.321 | Hemenway, Augustus II House | 110 Green St | Canton | 1882 |
| CAN.60 | Hemenway, Lawrence House | 151 Green St | Canton | 1926 |
| CAN.55 | Crane, Ebenezer House | 21 Green St Extension | Canton | 1815 |
| CAN.322 | Hemenway, Augustus II Gardener's Cottage | 10 Hemenway Dr | Canton | 1905 |
| CAN.323 | Eldridge, John S. - Hemenway, Augustus II | 12 Hemenway Dr | Canton | 1865 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| | Stable | | | |
| CAN.324 | Hemenway, Augustus II Card House | 14 Hemenway Dr | Canton | 1900 |
| CAN.325 | Hemenway, Augustus II Fire House | 16 Hemenway Dr | Canton | 1925 |
| CAN.326 | Hemenway, Augustus II Yellow Horse Barn | 44 Hemenway Dr | Canton | 1890 |
| CAN.327 | Hemenway, Augustus II Cow Barn | 60 Hemenway Dr | Canton | 1885 |
| CAN.901 | High Street Bridge over Conrail | High St | Canton | 1939 |
| CAN.303 | Seavey, Charles E. House | 24 High St | Canton | 1878 |
| CAN.304 | Dockray, Michael House | 44 High St | Canton | 1891 |
| CAN.4 | Clark, Marcus - Dunbar, John D. House | 65 High St | Canton | 1851 |
| CAN.290 | Leavitt, Joseph - Bowman, Thomas House | 71 High St | Canton | 1839 |
| CAN.328 | Aldrich, Samuel House | 76-78 High St | Canton | 1841 |
| CAN.111 | Kinsley, Silas House | 366 High St | Canton | 1790 |
| CAN.305 | Dockray, Thomas House | 26 Highland St | Canton | 1850 |
| CAN.375 | Draper and Summer Company Tenement | 5 Historical Way | Canton | 1865 |
| CAN.52 | Cherry Tavern | 2 Homans Ln | Canton | 1753 |
| CAN.53 | Cherry Hotel - Cherry Tree Hotel | 3 Homans Ln | Canton | 1753 |
| CAN.242 | Morrison, Samuel Eliot House | 4 Homans Ln | Canton | 1934 |
| CAN.376 | Bossi, Raymond House | 8 Hubbard St | Canton | 1946 |
| CAN.915 | I-95 Ramp over I-95 | I-95 | Canton | 1964 |
| CAN.334 | Crowd, Alfred House | 144 Indian Ln | Canton | 1849 |
| CAN.802 | Leonard - Gridley Burial Ground | Kinsley Pl | Canton | 1764 |
| CAN.217 | American Net and Twine Company Worker Housing | 13 Kinsley Pl | Canton | 1870 |
| CAN.218 | Canton Hardware Company Double Worker Housing | 19-25 Kinsley Pl | Canton | 1836 |
| CAN.219 | Canton Hardware Company Worker Housing | 27 Kinsley Pl | Canton | 1860 |
| CAN.906 | Forge Pond Bridge | Kinsley Pond | Canton | 1845 |
| CAN.933 | Mechanic Street Bridge over Massapoag Brook | Mechanic St | Canton | 1915 |
| CAN.369 | Tilson, Stephen F. - Foster, Josiah and Fred House | 104 Messinger St | Canton | 1848 |
| CAN.291 | Shepard, Luke J. House | 118 Messinger St | Canton | 1853 |
| CAN.296 | Messinger, Virgil J. and Vernon S. House | 166 Messinger St | Canton | 1848 |
| CAN.904 | Stoughton Railroad Bridge over Mill Brook | Mill Brook | Canton | 1845 |
| CAN.910 | B & P Railroad Bridge over Neponset River | Neponset River | Canton | 1911 |
| CAN.12 | | Neponset St | Canton | 1809 |
| CAN.908 | Canton Viaduct | Neponset St | Canton | 1834 |
| CAN.297 | Blackman, Samuel and William Double House | 31-33 Neponset St | Canton | 1837 |
| CAN.69 | Union Hall Tavern | 35 Neponset St | Canton | 1840 |
| CAN.11 | Revere, Joseph Warren House | 91 Neponset St | Canton | 1825 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.243 | Smith, Mary House | 170-172 Neponset St | Canton | 1851 |
| CAN.244 | Rutledge, Richard - Chauncy House | 176 Neponset St | Canton | 1847 |
| CAN.245 | Flannery - Shaughnessy, John House | 180 Neponset St | Canton | 1875 |
| CAN.246 | Howard, Richard - Luddy, Thomas House | 184 Neponset St | Canton | 1846 |
| CAN.247 | Berry, Thomas House | 190 Neponset St | Canton | 1847 |
| CAN.248 | Smith, Thomas - Corr, Peter House | 194 Neponset St | Canton | 1852 |
| CAN.249 | Berry, Thomas - Corr House | 196 Neponset St | Canton | 1860 |
| CAN.250 | Beals, Amansa House | 202 Neponset St | Canton | 1850 |
| CAN.251 | Caffery, James - Boyle, Thomas House | 204-206 Neponset St | Canton | 1850 |
| CAN.252 | Beals, William House | 210 Neponset St | Canton | 1837 |
| CAN.253 | Crane, Spencer House and Cabinet Shop | 220 Neponset St | Canton | 1809 |
| CAN.254 | Neponset Company Worker Housing | 226 Neponset St | Canton | 1832 |
| CAN.255 | Neponset Company Boarding House | 236-238 Neponset St | Canton | 1824 |
| CAN.256 | Neponset Company Worker Housing | 246 Neponset St | Canton | 1824 |
| CAN.133 | Tucker House | 386 Neponset St | Canton | 1840 |
| CAN.134 | Tucker, E. House | 394 Neponset St | Canton | 1840 |
| CAN.289 | Downes, George - Tapper, Thomas House | 433 Neponset St | Canton | 1852 |
| CAN.378 | Revere Copper Company Superintendent House | 468 Neponset St | Canton | 1870 |
| CAN.298 | Wood, Rufus C. - O'Brien, John House | 485 Neponset St | Canton | 1850 |
| CAN.329 | McCready, James House | 47 Norfolk St | Canton | 1851 |
| CAN.132 | Rising Sun Stove Polish Factory - Storehouse | 35 Pequit St | Canton | 1884 |
| CAN.366 | Canton Water Works | 40 Pine St | Canton | 1888 |
| CAN.14 | Morse House | Pleasant St | Canton | 1800 |
| CAN.16 | Capen, Samuel Tavern | Pleasant St | Canton | 1757 |
| CAN.936 | Reservoir Pond Dam | Pleasant St | Canton | 1931 |
| CAN.338 | | 26 Pleasant St | Canton | 1985 |
| CAN.135 | Draper, John Howard House | 33 Pleasant St | Canton | 1904 |
| CAN.136 | Daniels, Amy Draper House | 36 Pleasant St | Canton | 1921 |
| CAN.110 | Jordan House | 54 Pleasant St | Canton | 1832 |
| CAN.145 | Draper, Joseph Porter House | 55 Pleasant St | Canton | 1934 |
| CAN.23 | Pequitside Farm | 79 Pleasant St | Canton | 1809 |
| CAN.137 | Williams, Roger House | 92 Pleasant St | Canton | 1911 |
| CAN.20 | Tilden, David House | 93 Pleasant St | Canton | 1725 |
| CAN.19 | | 279 Pleasant St | Canton | 1850 |
| CAN.95 | Guild, Horace House | 448 Pleasant St | Canton | 1805 |
| CAN.318 | Gill, Benjamin House | 469 Pleasant St | Canton | 1825 |
| CAN.15 | Sherman, Roger House | 547 Pleasant St | Canton | 1845 |
| CAN.330 | Draper, Charles House | 643 Pleasant St | Canton | 1869 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.13 | Morse, William - Meadows, Joseph House | 682 Pleasant St | Canton | 1830 |
| CAN.125 | Burr, Seymour House | 690 Pleasant St | Canton | 1800 |
| CAN.2 | Connor House | 1138 Pleasant St | Canton | 1925 |
| CAN.186 | White, John Company Double Worker Housing | 23-25 Pond St | Canton | 1847 |
| CAN.187 | White, John Company Double Worker Housing | 29-31 Pond St | Canton | 1847 |
| CAN.188 | White, John Company Worker Housing | 45 Pond St | Canton | 1847 |
| CAN.189 | White, John Company Worker Housing | 65 Pond St | Canton | 1851 |
| CAN.190 | White, John Company Worker Housing | 68 Pond St | Canton | 1859 |
| CAN.191 | White, John Company Double Worker Housing | 71 Pond St | Canton | 1851 |
| CAN.154 | Billings, Peter House | 193 Randolph St | Canton | 1806 |
| CAN.344 | Schmeider, Albert House | 580 Randolph St | Canton | 1926 |
| CAN.907 | Stoughton Railroad Bridge over Revere Street | Revere St | Canton | 1890 |
| CAN.935 | Revere Copper Company Railroad Embankment | Revere St | Canton | 1835 |
| CAN.96 | Canton Police Station | 40 Revere St | Canton | 1931 |
| CAN.126 | Revere, Paul and Son Copper Rolling Mill | 104 Revere St | Canton | 1850 |
| CAN.127 | Revere, Paul and Son Copper Draft Horse Stable | 104 Revere St | Canton | 1845 |
| CAN.920 | Revere, Paul and Son Copper Works Sluiceway | 104 Revere St | Canton | 1840 |
| CAN.921 | Revere, Paul and Son Copper Works Revetment Wall | 104 Revere St | Canton | 1850 |
| CAN.934 | Rockland Street Bridge over Massapoag Brook | Rockland St | Canton | 1915 |
| CAN.97 | Eureka Silk Mill #1 | 27 Rockland St | Canton | 1885 |
| CAN.98 | Seavey, Foster and Bowman Boarding House | 33 Rockland St | Canton | 1870 |
| CAN.278 | Lehan, Michael T. House | 94 Rockland St | Canton | 1899 |
| CAN.279 | Bullard, Joel House | 108 Rockland St | Canton | 1852 |
| CAN.280 | Lyons, James Double House | 145-147 Rockland St | Canton | 1900 |
| CAN.281 | O'Connell, John House | 171-173 Rockland St | Canton | 1888 |
| CAN.56 | Chase House | 100 Royall St | Canton | 1935 |
| CAN.148 | Chase Estate - Barn | 100 Royall St | Canton | 1935 |
| CAN.149 | Chase Estate - Octagonal Shed | 100 Royall St | Canton | 1935 |
| CAN.150 | Chase Estate - Stable | 100 Royall St | Canton | 1948 |
| CAN.152 | Instron Complex | 100A Royall St | Canton | 1970 |
| CAN.153 | Instron Complex - Guard Shack | 100A Royall St | Canton | 1980 |
| CAN.922 | Instron Complex - Gazebo | 100A Royall St | Canton | 1980 |
| CAN.151 | Chase Estate - Caretaker's House | 104 Royall St | Canton | 1955 |
| CAN.913 | Route 128 Northbound Bridge over Neponset River | Rt 128 | Canton | 1955 |
| CAN.914 | Route 128 Southbound Bridge over Neponset River | Rt 128 | Canton | 1955 |
| CAN.50 | Cabot, Dr. Arthur House | Rt 138 | Canton | 1902 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.912 | Route 138 Bridge over Route 128 | Rt 138 | Canton | 1956 |
| CAN.38 | Hunt, George B. House | 1 Sassamon St | Canton | 1859 |
| CAN.345 | Hill, Edwin J. House | 33 Sherman St | Canton | 1895 |
| CAN.346 | Arnold, Frederick - Hill, Thomas J. House | 45 Sherman St | Canton | 1878 |
| CAN.306 | Barlow, Thomas L. Dairy Barn | 62 Sherman St | Canton | 1885 |
| CAN.347 | Witt, Hosea C. - Morse, Abner House | 67 Sherman St | Canton | 1882 |
| CAN.354 | Cushman, Hosea L. House | 76 Sherman St | Canton | 1874 |
| CAN.348 | Hunt, George T. House | 95 Sherman St | Canton | 1885 |
| CAN.282 | Butler, George House | 104 Sherman St | Canton | 1885 |
| CAN.349 | Draper, Rose E. - Day, Alceus B. House | 105 Sherman St | Canton | 1884 |
| CAN.350 | Barker, William A. - Fenno, Herbert L. House | 127 Sherman St | Canton | 1887 |
| CAN.355 | Lawrence, John - Moore, Lawrence House | 136 Sherman St | Canton | 1886 |
| CAN.356 | Roach, John F. House | 144 Sherman St | Canton | 1885 |
| CAN.357 | Riford, Lulu Nichols House | 155 Sherman St | Canton | 1914 |
| CAN.358 | Morrison, Robert - Rathbun, Charles House | 210 Sherman St | Canton | 1892 |
| CAN.307 | Morse, Elijah - Briggs, Richard House | 225 Sherman St | Canton | 1883 |
| CAN.359 | Riford, Louis C. - Estey, John House | 293 Sherman St | Canton | 1879 |
| CAN.360 | Bense, William H. - Luce, Dr. Dean House | 294 Sherman St | Canton | 1882 |
| CAN.351 | Ames, Walter House | 311 Sherman St | Canton | 1876 |
| CAN.361 | French, Abbott C. - Underwood, Edward L. House | 318 Sherman St | Canton | 1882 |
| CAN.352 | Endicott, Charles House | 319 Sherman St | Canton | 1878 |
| CAN.353 | Gay, Ellis - Deane, Francis W. House | 322 Sherman St | Canton | 1848 |
| CAN.362 | Crowley, Daniel House | 345 Sherman St | Canton | 1876 |
| CAN.363 | Ryan, James House | 353 Sherman St | Canton | 1876 |
| CAN.104 | Canton Junction Railroad Station | 666 Sherman St | Canton | 1892 |
| CAN.903 | Spaulding Street Bridge over MBTA | Spaulding St | Canton | 1888 |
| CAN.257 | Noyes, Samuel B. House | 45 Spring Ln | Canton | 1885 |
| CAN.258 | Dunbar, John D. House | 48 Spring Ln | Canton | 1889 |
| CAN.259 | Hewitt, Henry B. House | 53 Spring Ln | Canton | 1888 |
| CAN.260 | Cunningham, William House | 79 Spring Ln | Canton | 1889 |
| CAN.33 | Dunbar, James House | 100 Spring Ln | Canton | 1805 |
| CAN.39 | Peterson, William H. House | 22 Turnpike St | Canton | 1836 |
| CAN.308 | Wentworth, Edwin House | 102 Walnut St | Canton | 1853 |
| CAN.99 | Boston & Canton Cotton Mill - Neponset Cotton Co. | 59 Walpole St | Canton | 1808 |
| CAN.7 | | Washington St | Canton | 1850 |
| CAN.9 | | Washington St | Canton | 1830 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.40 | Spur House | Washington St | Canton | 1773 |
| CAN.118 | Ponkapoag Schoolhouse #3 - Ponkapoag Chapel | Washington St | Canton | 1840 |
| CAN.800 | Canton Corner Cemetery | Washington St | Canton | 1707 |
| CAN.801 | Saint Mary's Catholic Cemetery | Washington St | Canton | 1847 |
| CAN.220 | Belcher, Clifford Double House | 115-117 Washington St | Canton | 1840 |
| CAN.221 | Belcher, Clifford House | 123 Washington St | Canton | 1845 |
| CAN.222 | McGharan, Thomas P. House | 133 Washington St | Canton | 1896 |
| CAN.223 | Presbry, Simon House and Machine Shop | 142 Washington St | Canton | 1826 |
| CAN.224 | Mansfield, William House | 158 Washington St | Canton | 1850 |
| CAN.1 | Dunbar, Dea. Thomas House | 178-180 Washington St | Canton | 1803 |
| CAN.309 | Robinson, J. Albert House | 189 Washington St | Canton | 1907 |
| CAN.225 | Kinsley, Adam Jr. - Shepard, James S. House | 209 Washington St | Canton | 1825 |
| CAN.80 | White, James House | 216 Washington St | Canton | 1815 |
| CAN.226 | American Net and Twine Company Worker Housing | 239-241 Washington St | Canton | 1860 |
| CAN.70 | Upham, Abner T. House | 244 Washington St | Canton | 1850 |
| CAN.227 | American Net and Twine Company Worker Housing | 245-247 Washington St | Canton | 1860 |
| CAN.228 | American Net and Twine Company Worker Housing | 251 Washington St | Canton | 1882 |
| CAN.229 | Hayward, Joseph H. - Lord, William House | 260 Washington St | Canton | 1835 |
| CAN.230 | Shepard, Luke House | 271 Washington St | Canton | 1820 |
| CAN.71 | Shepard, James Stratton House | 294-296 Washington St | Canton | 1850 |
| CAN.3 | Gridley, Gen. Richard School | 300 Washington St | Canton | 1854 |
| CAN.81 | Crane, E. House | 352 Washington St | Canton | 1815 |
| CAN.72 | Wentworth, Nathaniel House | 353 Washington St | Canton | 1840 |
| CAN.5 | Wentworth, Nathaniel House | 391 Washington St | Canton | 1800 |
| CAN.82 | Gardner, E. House | 428 Washington St | Canton | 1820 |
| CAN.6 | Smith, Sidney L. House | 442 Washington St | Canton | 1840 |
| CAN.83 | Webster, Frank G. House | 455 Washington St | Canton | 1870 |
| CAN.84 | Abbot, Dr. Ezra House | 470-472 Washington St | Canton | 1837 |
| CAN.73 | Messinger, Jonathan House | 475 Washington St | Canton | 1840 |
| CAN.74 | Capen, E. Building | 482 Washington St | Canton | 1855 |
| CAN.75 | Capen, E. Building | 484-486 Washington St | Canton | 1865 |
| CAN.76 | Crane, Friend Double House | 505-507 Washington St | Canton | 1820 |
| CAN.192 | Crane, Abba House and Store | 515 Washington St | Canton | 1847 |
| CAN.193 | Brown, Orin Hotel | 521 Washington St | Canton | 1865 |
| CAN.194 | Barton, Albion Store | 525-527 Washington St | Canton | 1852 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.195 | Battelle, William House - Ellis, Daniel Store | 541 Washington St | Canton | 1843 |
| CAN.196 | Ames, Ellis House | 552 Washington St | Canton | 1850 |
| CAN.85 | Canton Institution for Savings | 557 Washington St | Canton | 1927 |
| CAN.138 | Robinson, Jonathan Double House | 558 Washington St | Canton | 1837 |
| CAN.197 | Marden, Charles House and Tinsmith Shop | 559-561 Washington St | Canton | 1851 |
| CAN.198 | Murray, John House and Dry Goods Store | 564 Washington St | Canton | 1879 |
| CAN.199 | Flood, Michael General Store | 568 Washington St | Canton | 1883 |
| CAN.200 | Flood, Michael Block | 574-586 Washington St | Canton | 1900 |
| CAN.201 | U. S. Post Office - Old Canton Center Branch | 588-590 Washington St | Canton | 1861 |
| CAN.202 | Plymouth Block | 592-600 Washington St | Canton | 1909 |
| CAN.120 | Kinsley Axle Shop | 641 Washington St | Canton | 1859 |
| CAN.77 | Hemenway School - Canton High School | 660 Washington St | Canton | 1911 |
| CAN.106 | U. S. Post Office - Canton Main Branch | 661 Washington St | Canton | 1935 |
| CAN.158 | Fralick Plumbing Company | 697 Washington St | Canton | 1955 |
| CAN.159 | Pesaturo Gas Station Garages | 697-703 Washington St | Canton | 1930 |
| CAN.160 | Horton Block | 699-705 Washington St | Canton | 1886 |
| CAN.231 | Saint John's The Evangelist Church Rectory | 700 Washington St | Canton | 1889 |
| CAN.161 | O'Dea, Michael House and Tailor Shop | 707-709 Washington St | Canton | 1865 |
| CAN.162 | | 713-717 Washington St | Canton | 1897 |
| CAN.163 | Stoughton Branch Railroad Freight Express Office | 719 Washington St | Canton | 1879 |
| CAN.165 | Billings, William House | 726 Washington St | Canton | 1836 |
| CAN.232 | Wright, Zeno House | 741 Washington St | Canton | 1848 |
| CAN.166 | Capen, Samuel M. House | 742 Washington St | Canton | 1880 |
| CAN.233 | Mann, J. House | 751 Washington St | Canton | 1850 |
| CAN.167 | Leavitt, Joseph - Holmes, Dr. A. R. House | 756-758 Washington St | Canton | 1846 |
| CAN.168 | Grover, Judge Thomas E. House | 776 Washington St | Canton | 1880 |
| CAN.169 | Billings, James Carriage Barn | 780 Washington St | Canton | 1842 |
| CAN.170 | Grover, Judge Thomas E. Carriage Barn | 782 Washington St | Canton | 1880 |
| CAN.78 | Canton Public Library | 786 Washington St | Canton | 1901 |
| CAN.103 | Canton Town Hall - Memorial Hall | 801 Washington St | Canton | 1878 |
| CAN.234 | Deane, Francis W. - French, Charles H. House | 814 Washington St | Canton | 1850 |
| CAN.86 | Trinity Episcopal Church | 824 Washington St | Canton | 1897 |
| CAN.87 | Beals, W. House | 847 Washington St | Canton | 1815 |
| CAN.128 | Rising Sun Stove Polish Factory - North Mill | 869 Washington St | Canton | 1884 |
| CAN.129 | Rising Sun Stove Polish Factory - South Mill | 869 Washington St | Canton | 1884 |
| CAN.130 | Rising Sun Stove Polish Factory - Boiler House | 869 Washington St | Canton | 1884 |
| CAN.139 | Rising Sun Stove Polish Factory - Boiler House | 869 Washington St | Canton | 1884 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.131 | Rising Sun Stove Polish Factory - Carriage House | 879 Washington St | Canton | 1884 |
| CAN.235 | Byam, Samuel L. House | 943 Washington St | Canton | 1883 |
| CAN.203 | Morse, Samuel V. House | 963 Washington St | Canton | 1916 |
| CAN.204 | Allen, Mildred Morse Art Studio | 963 Washington St | Canton | 1938 |
| CAN.205 | Everett, J. Mason Carriage Barn and Stable | 963 Washington St | Canton | 1865 |
| CAN.79 | Endicott, John House | 1032 Washington St | Canton | 1852 |
| CAN.17 | Endicott, Capt. James III House | 1044 Washington St | Canton | 1807 |
| CAN.364 | Galligan, Charles House | 1049 Washington St | Canton | 1882 |
| CAN.121 | Endicott, Frederic House | 1056 Washington St | Canton | 1872 |
| CAN.261 | Shepard, Samuel House | 1178 Washington St | Canton | 1790 |
| CAN.236 | Shepard, Asa House | 1187 Washington St | Canton | 1835 |
| CAN.237 | Tucker, Francis W. House | 1196 Washington St | Canton | 1868 |
| CAN.238 | Draper, William H. House | 1207 Washington St | Canton | 1892 |
| CAN.239 | Draper, James Textile Mill Worker Housing | 1212-1216 Washington St | Canton | 1865 |
| CAN.262 | Draper, H. Kinsley House | 1230 Washington St | Canton | 1937 |
| CAN.240 | Draper, Robert House | 1238 Washington St | Canton | 1876 |
| CAN.292 | Capen, George F. House | 1274 Washington St | Canton | 1863 |
| CAN.26 | Vose's Tavern | 1304 Washington St | Canton | 1707 |
| CAN.88 | Downes, Comm. John - Downes, Joseph Fenno House | 1309 Washington St | Canton | 1820 |
| CAN.206 | Draper, Alfred House | 1350 Washington St | Canton | 1877 |
| CAN.207 | Williams, William J. House | 1358 Washington St | Canton | 1871 |
| CAN.112 | Sumner, Nathaniel House | 1378 Washington St | Canton | 1800 |
| CAN.299 | Shannon, James P. House | 1379 Washington St | Canton | 1921 |
| CAN.122 | Reed, Bediah - Draper, James House | 1390 Washington St | Canton | 1817 |
| CAN.146 | Draper, Thomas - Hennessy, Norma House | 1395 Washington St | Canton | 1916 |
| CAN.29 | Canton Historical Society Building | 1400 Washington St | Canton | 1911 |
| CAN.140 | Canton Corner Firehouse | 1403 Washington St | Canton | 1890 |
| CAN.113 | Capen, Samuel Jr. House | 1422 Washington St | Canton | 1820 |
| CAN.339 | | 1424 Washington St | Canton | 1965 |
| CAN.340 | | 1427 Washington St | Canton | 1961 |
| CAN.28 | Withington, John Jr. House | 1429 Washington St | Canton | 1762 |
| CAN.341 | | 1441 Washington St | Canton | 1985 |
| CAN.30 | Downes, George Tavern | 1442 Washington St | Canton | 1820 |
| CAN.141 | Draper, James L. and Percy House | 1451 Washington St | Canton | 1885 |
| CAN.142 | Esty, Bessie R. House | 1452 Washington St | Canton | 1905 |
| CAN.31 | Hewitt, Harriot Crane House | 1458 Washington St | Canton | 1800 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.109 | Downes, Oliver House | 1466 Washington St | Canton | 1798 |
| CAN.143 | Draper, Walter Scott House | 1467 Washington St | Canton | 1906 |
| CAN.144 | Downes, Lucy D. House | 1476 Washington St | Canton | 1900 |
| CAN.107 | Eliot School | 1492 Washington St | Canton | 1894 |
| CAN.32 | Canton Unitarian Church | 1508 Washington St | Canton | 1824 |
| CAN.108 | Unitarian First Parish Hall | 1508 Washington St | Canton | 1876 |
| CAN.342 | | 1682 Washington St | Canton | 1959 |
| CAN.300 | Benton, Elijah - Loring, Jonathan House | 1684 Washington St | Canton | 1832 |
| CAN.123 | Blackman, Lt. Col. James House | 1803 Washington St | Canton | 1825 |
| CAN.34 | Blackman, Samuel Jr. House | 1818 Washington St | Canton | 1810 |
| CAN.35 | Bailey, Elijah House | 1894 Washington St | Canton | 1855 |
| CAN.36 | Bemis, Joseph House | 2020 Washington St | Canton | 1780 |
| CAN.319 | Hewett, Job House | 2135 Washington St | Canton | 1860 |
| CAN.124 | Fisher, Samuel Sash Factory | 2136-2138 Washington St | Canton | 1855 |
| CAN.41 | McKendry House | 2150 Washington St | Canton | 1850 |
| CAN.335 | Ponkapoag Golf Course Maintenance Facility | 2167 Washington St | Canton | 1980 |
| CAN.336 | Ponkapoag Golf Course Club House - Locker Building | 2167 Washington St | Canton | 1931 |
| CAN.337 | Ponkapoag Golf Course Pro House | 2167 Washington St | Canton | 1932 |
| CAN.940 | Ponkapoag Golf Course | 2167-2173 Washington St | Canton | 1931 |
| CAN.941 | Ponkapoag Golf Course Shelters | 2167 Washington St | Canton | 1970 |
| CAN.942 | Ponkapoag Golf Course - Pump House A | 2167 Washington St | Canton | 1980 |
| CAN.943 | Ponkapoag Golf Course - Pump House B | 2167 Washington St | Canton | 1941 |
| CAN.944 | Maple Street | 2167 Washington St | Canton | 1850 |
| CAN.945 | Ponkapoag Golf Course Drainage System | 2167 Washington St | Canton | 1935 |
| CAN.42 | Redman Farm House | 2173 Washington St | Canton | 1795 |
| CAN.114 | Bazin, James Amireaux Double House | 2187-2191 Washington St | Canton | 1829 |
| CAN.164 | Bazin, James A. Musical Instrument Workshop | 2187-2191 Washington St | Canton | 1849 |
| CAN.46 | McKendry, Capt. William House | 2200 Washington St | Canton | 1830 |
| CAN.115 | Horton, Isaac House | 2207 Washington St | Canton | 1840 |
| CAN.47 | Warren, Ebenezer House | 2208 Washington St | Canton | 1727 |
| CAN.117 | French, Thomas Jr. House | 2222 Washington St | Canton | 1840 |
| CAN.48 | McKendry, John House | 2227 Washington St | Canton | 1830 |
| CAN.116 | Billings and Horton Grocery Store | 2237-2239 Washington St | Canton | 1900 |
| CAN.51 | Crane, Elijah House | 2391 Washington St | Canton | 1755 |
| CAN.119 | Ponkapoag Schoolhouse #4 | 2438 Washington St | Canton | 1892 |
| CAN.310 | Bradley, Eleanor Cabot House | 2468 Washington St | Canton | 1902 |
| CAN.147 | | 4001 Washington St | Canton | 1900 |

| Inv. No. | Property Name | Street | Town | Year |
|---|---|---|---|---|
| CAN.264 | Tucker, Simeon - Mann, Isaac House | 220 York St | Canton | 1840 |
| CAN.100 | York District Schoolhouse #4 | 301 York St | Canton | 1815 |
| CAN.265 | Jones, Hiram - Lunsman, John House | 304 York St | Canton | 1850 |
| CAN.263 | Tucker, Samuel - Waterman, Nixon House | 316 York St | Canton | 1810 |
| CAN.266 | Upham, Able T. - May, Jefferson House | 395 York St | Canton | 1830 |
| CAN.267 | Whitney, Lemuel - May, Frederick A. House | 398 York St | Canton | 1851 |
| CAN.268 | Smith, Joseph H. - Wagner, John F. House | 405 York St | Canton | 1861 |
| CAN.269 | Linder, John F. House | 408 York St | Canton | 1904 |
| CAN.283 | Carpenter, Charles E. Carriage Barn | 408 York St | Canton | 1885 |
| CAN.270 | Nunes, George O. - Hardy, Warren P. House | 435 York St | Canton | 1911 |
| CAN.271 | Beal, Eleazar - Jones, Albert House | 440 York St | Canton | 1815 |
| CAN.272 | Clay, Charles V. - Hardy, Herbert W. House | 441 York St | Canton | 1870 |
| CAN.273 | Withington, Nathan House | 451 York St | Canton | 1835 |