



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

JAN 15 2014

Steven Charron
Environmental Manager
Global Montello Group Corporation
404 Wyman Street, Suite 425
Waltham, MA 02451

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Mobil - Station No. 2723 site located at 453 Washington Street, Wellesley,
MA 02481, Norfolk County; Authorization # MAG910605

Dear Mr. Charron:

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

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

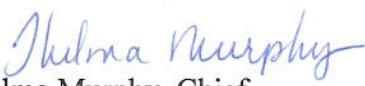
Please note the enclosed checklist includes parameters that exceeded Appendix III limits. Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the absence of dilution to Fuller Brook the receiving stream, EPA determined that the DFR for each parameter is in the one to five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities) Therefore, the limits for lead of 2.08 ug/L and iron of 1,600 ug/L, are required to achieve permit compliance at your site. Please note that these metal limitations 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

case is 1.6. See footnote eleven at the end of the "Summary of Monitoring Parameters" listed below for further explanation.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on February 26, 2014. You are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,


Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Paul L. Criswell, Wellesley PWD
Nicole Callahan, Environmental Compliance Services, Inc.

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

NPDES Authorization Number:	MAG910605
Authorization Issued:	January, 2014
Facility/Site Name:	Mobil - Station No. 2723
Facility/Site Address:	453 Washington St., Wellesley, MA 02481
	Email address of owner: Scharron@globalp.com
Legal Name of Operator:	Global Montello Group Corporation
Operator contact name, title, and Address:	Steven Charron
	Email: same as the owner
Estimated date of Completion:	February 26, 2014
Category and Sub-Category:	Category I- Petroleum Related Site Remediation. Sub-category A. Gasoline Only Discharges
RGP Termination Date:	September 10, 2015
Receiving Water:	Fuller Brook

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

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

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

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8,9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	<u>Metal parameter</u>	<u>Total Recoverable MA/Metal Limit H¹⁰ = 50 mg/l CaCO₃, Units = ug/l^(11/12)</u>		<u>Minimum level=ML</u>	
		<u>Freshwater Limits</u>			
	39. Antimony	5.6		ML	10
	40. Arsenic **	10		ML	20
	41. Cadmium **	0.2		ML	10
	42. Chromium III (trivalent) **	48.8		ML	15
	43. Chromium VI (hexavalent) **	11.4		ML	10
	44. Copper **	5.2		ML	15
✓	45. Lead **	2.08		ML	20
	46. Mercury **	0.9		ML	02
	47. Nickel **	29		ML	20
	48. Selenium **	5		ML	20
	49. Silver	1.2		ML	10
	50. Zinc **	66.6		ML	15
✓	51. Iron	1,600		ML	20

	<u>Other Parameters</u>	<u>Limit</u>
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
✓	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹³
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹⁴
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹⁴
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹⁴
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹⁴
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹⁴
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹⁴
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹⁴
	64. Maximum Change in Temperature in MA -Any Class SB water body - October to June	4°F; 1/Month/Grab ¹⁴

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using $DF \times 1,000 \text{ ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ ug/L}$, etc. not to exceed the DF=5.

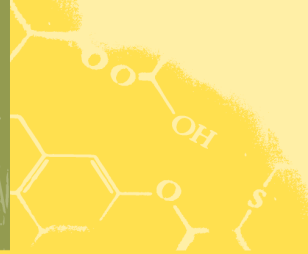
¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE



607 North Avenue, Suite 11, Wakefield, MA 01880 tel 781.246.8897 fax 781.246.8950 www.ecsconsult.com

December 31, 2013
ECS Project #95-220730

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

RE: Remediation General Permit – Notice of Intent
Mobil-branded Petroleum Retail Station
453 Washington Street
Wellesley, Massachusetts 02481

To Whom It May Concern:

At the request of Global Companies LLC (Global), Environmental Compliance Services, Inc. (ECS) is submitting the attached Remediation General Permit (RGP) Notice of Intent (NOI) for the above-referenced location, referred to as the site. The property, located at 453 Washington Street in Wellesley, Massachusetts (here-in-after referred to as the “Site”), is a retail gas station and convenience store. This NOI is being submitted in order to obtain a permit for the operation of a temporary groundwater recovery and treatment system (GWTS) at the Site. The GWTS is required to be operated at the Site in order to allow for the removal and replacement of petroleum underground storage tanks (USTs) at the Site. Global anticipates that the UST replacement activities will begin on or about January 25, 2013 and will last for approximately 30 days. The RGP NOI, along with dilution factor calculations, is included in Attachment I. A Site Location Map, Site Map, Drainage Plan, and a System Flow Diagram are provided as Figures 1 through 4, respectively.

Based on previous investigations conducted at the Site, the average depth to groundwater beneath the Site ranges from approximately 5 to 9 feet (ft) below ground surface (bgs); however, soil excavation to a depth of approximately 15 ft bgs will be required for the UST installation. As such, operation of a GWTS will be required to facilitate the UST removal/installation activities.

On December 13, 2013, ECS personnel visited the Site in order to collect groundwater samples from an temporary groundwater monitoring point installed immediately adjacent to and downgradient of the current UST system (designated TW-B1), in the proposed soil excavation area. Per RGP Appendix III, the groundwater samples were analyzed for parameters applicable to Category I, Subcategory A (gasoline only sites). The laboratory analytical report for the groundwater samples collected on December 13, 2013 is included in Attachment II.

According to the Massachusetts Geographical Information System (MassGIS) and the tables and maps shown in Appendix I of the RGP, the Site and discharge areas are not located within an Area of Critical Environmental Concern (ACEC) or Habitats of Rare Wetland Wildlife. A review of information on the U.S. Fish and Wildlife Service website indicates that the project will not impact federally-listed threatened or endangered species, and no further coordination with the U.S. Fish and Wildlife Service was necessary. A copy of the documents reviewed to make this determination along with the “no species present” letter is included in Attachment III. Additionally, there are no structures located at the Site that

are listed on the National Register of Historic Places. A list of structures on Washington Street in Wellesley, MA with designation on the National Register is included in Attachment IV.

If you have any questions, or require additional information, please contact the undersigned.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.



Nicole Callahan
Project Manger

FIGURES:

Figure 1	Site Locus
Figure 2	Site Plan
Figure 3	Drainage Plan
Figure 4	System Flow Diagram

ATTACHMENTS:

Attachment I	Remediation General Permit Notice of Intent
Attachment II	Laboratory Analytical Report
Attachment III	Endangered Species Act Eligibility
Attachment IV	National Historic Preservation Act Eligibility

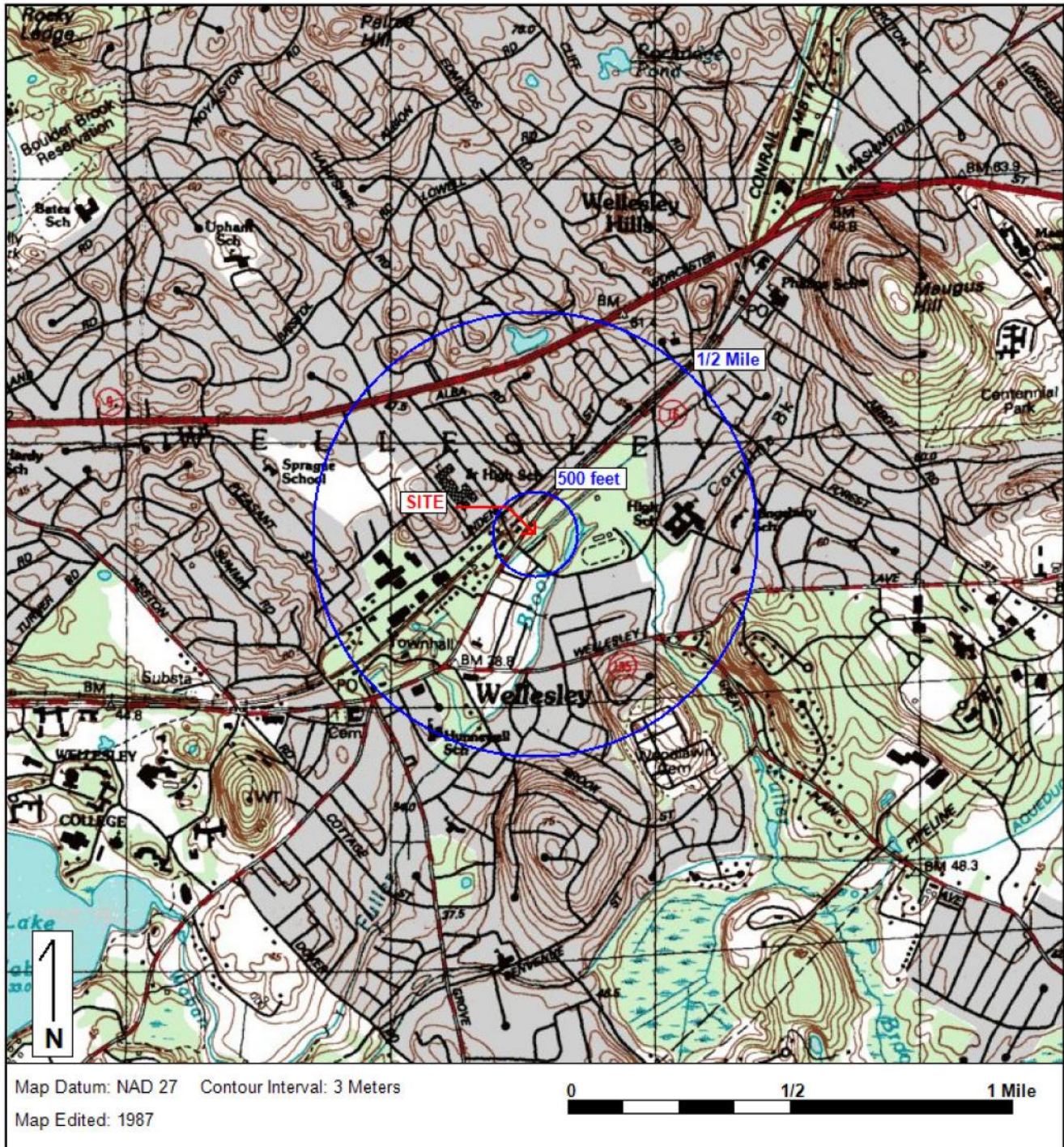
FIGURES



Environmental Compliance Services, Inc.
10 State Street
Woburn, MA 01801
Phone 781.246.8897 Fax 781.246.8950
www.ecsconsult.com

GMG #2723- 435 Washington St, Wellesley, MA
435 Washington Street
Wellesley, MA 02482

Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Framingham, MA

Lat/Lon: 42 18' 9" NORTH, 71 17' 11" WEST - UTM Coordinates: 19 311540 EAST / 4685895 NORTH

Generated By: Kevin Collins



Legend

- Approximate Property Line
- Sanitary Sewer Line
- Storm Sewer Line
- Water Line
- Natural Gas Line
- Overhead Electric Line
- Manhole
- Catchbasin
- Water Gate
- Fire Hydrant
- Utility Pole
- Drain Manhole
- Catch Basin

General Notes:

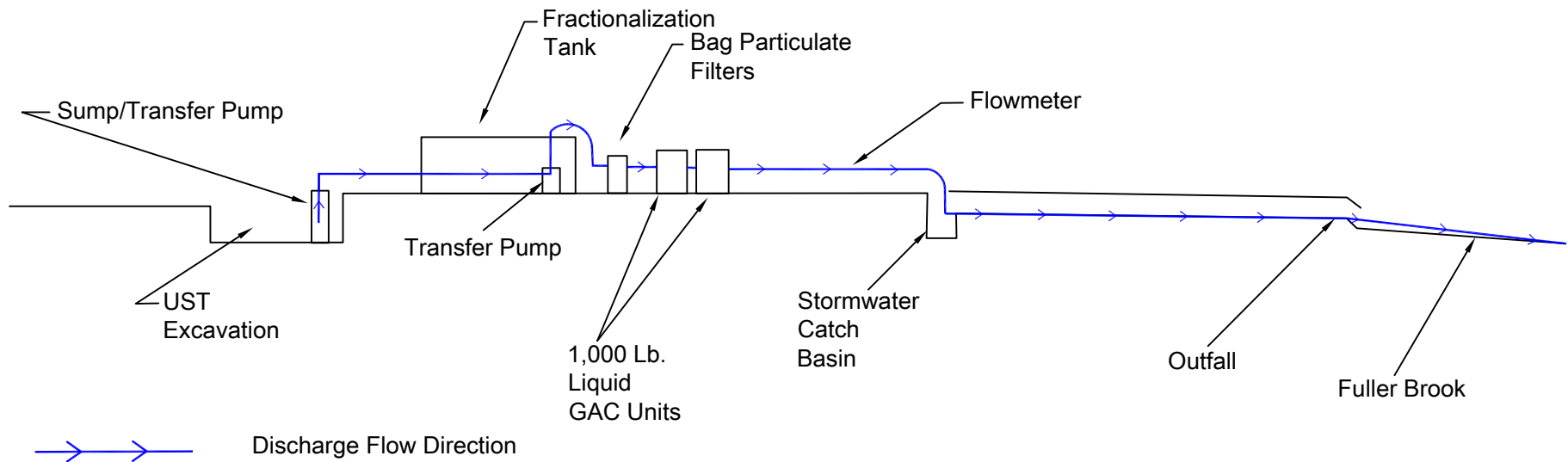
All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal, and vertical locations of wells, and selected site features determined through measurements made by representatives of ECS.



10 State Street • Woburn, Massachusetts 01801
Phone: 781-246-8897 Fax: 781-246-8950

PROJECT:			
Mobil No. 2723			
453 Washington Street			
Wellesley, Massachusetts			
TITLE:			
Drainage Plan			
CLIENT:			
Global Companies LLC			
GRAPHIC SCALE:			
COMPUTER CADFILE '95-220730.dwg			
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
NC	NC	NC	MC
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1' = 50'	Dec 2013	95-220730	3



10 State Street * Woburn, MA 01801
Phone: 781-248-8897 Fax: 413-788-3530
www.ecsconsult.com

REVISIONS		
No.	Date	Description

PROJECT:

Mobil Station No. 2723

453 Washington Street
Wellesley, Massachusetts

TITLE:

System Flow Diagram

COMPUTER CADFILE : 95-220730

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
NC	NC	NB	NB
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
NTS	12/30/2013	220730	4

ATTACHMENT I

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 : Wellesley Mobil - Station No. 2723		Facility/site mailing address:	
Location of facility/site :	Facility SIC code(s):	Street: 453 Washington Street	
longitude: 42.302527			
latitude: -71.286419			
b) Name of facility/site owner :		Town: Wellesley	
Email address of facility/site owner: Scharron@globalp.com		State: MA	Zip: 02481
Telephone no. of facility/site owner : (781) 786-6320		County: Norfolk	
Fax no. of facility/site owner :		Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>	
Address of owner (if different from site):		3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:	
Street: 404 Wyman Street, Suite 425			
Town: Waltham	State: MA	Zip: 02451	County: Middlesex
c) Legal name of operator : Global Montello Group Corp.		Operator telephone no: (781) 786-6320	
Operator fax no.:		Operator email: scharron@globalp.com	
Operator contact name and title: Steven Charron - Environmental Manager			
Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:

d) Check Y for “yes” or N for “no” for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Y ☐ N ☒, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ☐ N ☒, if Y, date and tracking #:
3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Y ☐ N ☒
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ☒ N ☐

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ☐ N ☒

If Y, please list:

1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y ☐ N ☒,
if Y, number:
2. Final Dewatering General Permit? Y ☐ N ☒,
if Y, number:
3. EPA Construction General Permit? Y ☐ N ☒,
if Y, number:
4. Individual NPDES permit? Y ☐ N ☒,
if Y, number:
5. any other water quality related individual or general permit? Y ☐ N ☒, if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y ☐ N ☒

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

<u>Activity Category</u>	<u>Activity Sub-Category</u>
I - Petroleum Related Site Remediation	A. Gasoline Only Sites <input checked="" type="checkbox"/> B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input type="checkbox"/> C. Petroleum Sites with Additional Contamination <input type="checkbox"/>
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/> B. VOC Sites with Additional Contamination <input type="checkbox"/> C. Primarily Heavy Metal Sites <input type="checkbox"/>
III - Contaminated Construction Dewatering	A. General Urban Fill Sites <input type="checkbox"/> B. Known Contaminated Sites <input type="checkbox"/>

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

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:			
The petroleum station replacing their underground fuel storage tanks and dewatering will be necessary during removal and replacement activities. The discharge will be associated with dewatering activities.			
b) Provide the following information about each discharge:			
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)?		
1	Max. flow <input type="text" value="0.168"/> Is maximum flow a design value ? Y <input type="radio"/> N <input checked="" type="radio"/>		
	Average flow (include units) <input type="text" value="0.117 cubic ft/sec"/> Is average flow a design value or estimate? <input type="text" value="Estimate"/>		
3) Latitude and longitude of each discharge within 100 feet:			
pt.1: lat.	<input type="text" value="42.302487"/>	long.	<input type="text" value="-71.286213"/>
pt.2: lat.	<input type="text"/>	long.	<input type="text"/>
pt.3: lat.	<input type="text"/>	long.	<input type="text"/>
pt.4: lat.	<input type="text"/>	long.	<input type="text"/>
pt.5: lat.	<input type="text"/>	long.	<input type="text"/>
pt.6: lat.	<input type="text"/>	long.	<input type="text"/>
pt.7: lat.	<input type="text"/>	long.	<input type="text"/>
pt.8: lat.	<input type="text"/>	long.	<input type="text"/>
etc.			
4) If hydrostatic testing, total volume of the discharge (gals):		5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> ?	
<input type="text" value="N/A"/>		Is discharge ongoing? Y <input type="radio"/> N <input checked="" type="radio"/>	
c) Expected dates of discharge (mm/dd/yy): start <input type="text" value="01/26/2013"/> end <input type="text" value="02/26/2013"/>			
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).			
<input type="text" value="See flow schematic attached as Figure 4."/>			

3. Contaminant information.

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	SM25040	5,000	114,000	46.64	114,000	31.09
2. Total Residual Chlorine (TRC)		<input type="checkbox"/>	<input type="checkbox"/>	0							
3. Total Petroleum Hydrocarbons (TPH)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	SW846/810	200	2,900	1.19	2,900	0.79
4. Cyanide (CN)	57125	<input type="checkbox"/>	<input type="checkbox"/>	0							
5. Benzene (B)	71432	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	50	1,040	0.43	1,040	0.28
6. Toluene (T)	108883	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	50	2,660	1.09	2,660	0.73
7. Ethylbenzene (E)	100414	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	50	210	0.09	210	0.06
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	50	768	0.31	768	0.21
9. Total BTEX ²	n/a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	50	4,678	1.91	4,678	1.28
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	846/8111	0.01	<0.01	0	<0.01	0
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	5.0	22.4	0.01	22.4	0.01
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260	5.0	<5.0	0	<5.0	0

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

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

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260	5.0	<5.0	0	<5.0	0
14. Naphthalene	91203	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8260	5.0	7.10	0	7.10	0
15. Carbon Tetrachloride	56235	<input type="checkbox"/>	<input type="checkbox"/>	0							
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input type="checkbox"/>	<input type="checkbox"/>	0							
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input type="checkbox"/>	<input type="checkbox"/>	0							
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input type="checkbox"/>	<input type="checkbox"/>	0							
18a. Total dichlorobenzene		<input type="checkbox"/>	<input type="checkbox"/>	0							
19. 1,1 Dichloroethane (DCA)	75343	<input type="checkbox"/>	<input type="checkbox"/>	0							
20. 1,2 Dichloroethane (DCA)	107062	<input type="checkbox"/>	<input type="checkbox"/>	0							
21. 1,1 Dichloroethene (DCE)	75354	<input type="checkbox"/>	<input type="checkbox"/>	0							
22. cis-1,2 Dichloroethene (DCE)	156592	<input type="checkbox"/>	<input type="checkbox"/>	0							
23. Methylene Chloride	75092	<input type="checkbox"/>	<input type="checkbox"/>	0							
24. Tetrachloroethene (PCE)	127184	<input type="checkbox"/>	<input type="checkbox"/>	0							
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input type="checkbox"/>	<input type="checkbox"/>	0							
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input type="checkbox"/>	<input type="checkbox"/>	0							
27. Trichloroethene (TCE)	79016	<input type="checkbox"/>	<input type="checkbox"/>	0							

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014	<input type="checkbox"/>	<input type="checkbox"/>	0							
29. Acetone	67641	<input type="checkbox"/>	<input type="checkbox"/>	0							
30. 1,4 Dioxane	123911	<input type="checkbox"/>	<input type="checkbox"/>	0							
31. Total Phenols	108952	<input type="checkbox"/>	<input type="checkbox"/>	0							
32. Pentachlorophenol (PCP)	87865	<input type="checkbox"/>	<input type="checkbox"/>	0							
33. Total Phthalates (Phthalate esters) ⁴		<input type="checkbox"/>	<input type="checkbox"/>	0							
34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	117817	<input type="checkbox"/>	<input type="checkbox"/>	0							
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input type="checkbox"/>	<input type="checkbox"/>	0							
a. Benzo(a) Anthracene	56553	<input type="checkbox"/>	<input type="checkbox"/>	0							
b. Benzo(a) Pyrene	50328	<input type="checkbox"/>	<input type="checkbox"/>	0							
c. Benzo(b)Fluoranthene	205992	<input type="checkbox"/>	<input type="checkbox"/>	0							
d. Benzo(k)Fluoranthene	207089	<input type="checkbox"/>	<input type="checkbox"/>	0							
e. Chrysene	21801	<input type="checkbox"/>	<input type="checkbox"/>	0							
f. Dibenzo(a,h)anthracene	53703	<input type="checkbox"/>	<input type="checkbox"/>	0							
g. Indeno(1,2,3-cd) Pyrene	193395	<input type="checkbox"/>	<input type="checkbox"/>	0							
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input type="checkbox"/>	<input type="checkbox"/>	0							

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329	<input type="checkbox"/>	<input type="checkbox"/>	0							
i. Acenaphthylene	208968	<input type="checkbox"/>	<input type="checkbox"/>	0							
j. Anthracene	120127	<input type="checkbox"/>	<input type="checkbox"/>	0							
k. Benzo(ghi) Perylene	191242	<input type="checkbox"/>	<input type="checkbox"/>	0							
l. Fluoranthene	206440	<input type="checkbox"/>	<input type="checkbox"/>	0							
m. Fluorene	86737	<input type="checkbox"/>	<input type="checkbox"/>	0							
n. Naphthalene	91203	<input type="checkbox"/>	<input type="checkbox"/>	0							
o. Phenanthrene	85018	<input type="checkbox"/>	<input type="checkbox"/>	0							
p. Pyrene	129000	<input type="checkbox"/>	<input type="checkbox"/>	0							
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input type="checkbox"/>	<input type="checkbox"/>	0							
38. Chloride	16887006	<input type="checkbox"/>	<input type="checkbox"/>	0							
39. Antimony	7440360	<input type="checkbox"/>	<input type="checkbox"/>	0							
40. Arsenic	7440382	<input type="checkbox"/>	<input type="checkbox"/>	0							
41. Cadmium	7440439	<input type="checkbox"/>	<input type="checkbox"/>	0							
42. Chromium III (trivalent)	16065831	<input type="checkbox"/>	<input type="checkbox"/>	0							
43. Chromium VI (hexavalent)	18540299	<input type="checkbox"/>	<input type="checkbox"/>	0							
44. Copper	7440508	<input type="checkbox"/>	<input type="checkbox"/>	0							
45. Lead	7439921	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	846/6010	7.5	23.9	0.01	23.9	0.01
46. Mercury	7439976	<input type="checkbox"/>	<input type="checkbox"/>	0							
47. Nickel	7440020	<input type="checkbox"/>	<input type="checkbox"/>	0							
48. Selenium	7782492	<input type="checkbox"/>	<input type="checkbox"/>	0							
49. Silver	7440224	<input type="checkbox"/>	<input type="checkbox"/>	0							
50. Zinc	7440666	<input type="checkbox"/>	<input type="checkbox"/>	0							
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	846/6010	15	18,000	7.36	18,000	4.91
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>	0							

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

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

<p><i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p>	<p>If yes, which metals?</p> <p>Lead, Iron</p>										
<p><i>Step 2:</i> For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?</p> <table border="1"> <tr> <td>Metal: Lead</td> <td>DF: 1.65</td> </tr> <tr> <td>Metal: Iron</td> <td>DF: 1.65</td> </tr> <tr> <td>Metal: </td> <td>DF: </td> </tr> <tr> <td>Metal: </td> <td>DF: </td> </tr> <tr> <td>Etc.</td> <td></td> </tr> </table>	Metal: Lead	DF: 1.65	Metal: Iron	DF: 1.65	Metal:	DF:	Metal:	DF:	Etc.		<p>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)?</p> <p>Y <input checked="" type="radio"/> N <input type="radio"/> If Y, list which metals:</p> <p>Lead, Iron</p>
Metal: Lead	DF: 1.65										
Metal: Iron	DF: 1.65										
Metal:	DF:										
Metal:	DF:										
Etc.											

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

<p>a) A description of the treatment system, including a schematic of the proposed or existing treatment system:</p> <p>The water from the UST excavation will be pumped into a frac tank for settling, then through two (2) bag filter units in parallel, two (2) 1,000-lb liquid granular activated carbon (GAC) vessels in series, and a flow meter prior to discharge. The treated water will be discharged to a catch basin located in Washington Street which connects to the Town of Wellesley drainage system to an outfall located approximately 500 feet southeast of the Site which drains to Fuller Brook.</p>						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank <input checked="" type="checkbox"/>	Air stripper <input type="checkbox"/>	Oil/water separator <input type="checkbox"/>	Equalization tanks <input type="checkbox"/>	Bag filter <input checked="" type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
	Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	Other (please describe):			

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

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

Design flow rate of treatment system gpm

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

None.

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:

The catch basin located in Washington Street discharges to an outfall to Fuller Brook which is located approximately 500 feet to the southeast of the Site.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water cfs

Please attach any calculation sheets used to support stream flow and dilution calculations.

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

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

6. ESA and NHPA Eligibility.

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

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ☐ N ☐ Underway ☐

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y ☐ N ☐

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ☐ 2 ☒ 3 ☐

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.


7. Supplemental information.

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

Data reviewed to make the above ESA and NHPA Eligibility determinations is attached as Appendix III and IV.

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:	Mobil Station # 2723
Operator signature:	
Printed Name & Title:	Steven Charron, Environmental Manager
Date:	12-31-13

B. Submission of NOI to EPA - All operators applying for coverage under this General Permit must submit a completed Notice of Intent (NOI) to EPA. Signed and completed NOI forms and attachments must be submitted to EPA-NE at:

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, MA 02109-3912
ATTN: Remediation General Permit NOI Processing

or electronically mailed to NPDES.Generalpermits@epa.gov

or faxed to the EPA Office at 617-918-0505

If filling out the suggested NOI form electronically on EPA's website, the signature page must be signed and faxed or mailed to EPA at the fax number and/or address listed above.

1. Filing with the states - A copy of any NOI form filed with EPA-NE must also be filed with state agencies. The state agency may elect to develop a state specific form or other information requirements.

a) Discharges in Massachusetts - In addition to the NOI, permit applicants must submit copies of the State Application Form BRPWM 12, Request for General Permit coverage for the RGP. The application form and the Transmittal Form for Permit Application and Payment may be obtained from the Massachusetts Department of Environmental Protection (MassDEP) website at www.state.ma.us/dep. Municipalities are fee-exempt, but should send a copy of the transmittal form to that address for project tracking purposes. All applicants should keep a copy of the transmittal form and a copy of the application package for their records.

1) A copy of the NOI, the transmittal form, a copy of the check, and Form BRPWM 12 should be sent to:

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd floor
Worcester, MA 01608

2) A copy of the transmittal form and the appropriate fee should be sent to:

Massachusetts Department of Environmental Protection
P.O. Box 4062
Boston, MA 02111

Please note: Applicants for discharges in Massachusetts should note that under 310 CMR 40.000, *as a matter of state law*, the general permit only applies to discharges that are **not** subject to the

Massachusetts Contingency Plan (MCP) and 310 CMR 40.000. Therefore, discharges subject to the MCP are **not** required to fill out and submit the State Application Form BRPWM 12 or pay the state fees. However, they must submit a NOI to EPA.

b) Discharges in New Hampshire - applicants must provide a copy of the Notice of Intent to:

New Hampshire Department of Environmental Services
Water Division
Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095.

2. Filing with Municipalities - A copy of the NOI must be submitted to the municipality in which the proposed discharge would be located.

Dilution Factor

$$DF = (Q_d + Q_s)/Q_d$$

$$DF = (0.168 \text{ cfs} + 0.11 \text{ cfs})/.168 \text{ cfs}$$

$$DF = 1.65$$

ATTACHMENT II

Report Date:
17-Dec-13 15:17



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
10 State Street
Woburn, MA 01801
Attn: Matthew Carey

Project: Global Wellesley - 453 Washington St
Project #: 95-220730

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB81988-01	TW-B1	Ground Water	13-Dec-13 10:00	13-Dec-13 18:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director


Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 22 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

MassDEP Analytical Protocol Certification Form

Laboratory Name: Spectrum Analytical, Inc.			Project #: 95-220730		
Project Location: Global Wellesley - 453 Washington St			RTN:		
This form provides certifications for the following data set:			SB81988-01		
Matrices: Ground Water					
CAM Protocol					
✓	8260 VOC CAM II A	✓	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B
	8270 SVOC CAM II B		7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C
✓	6010 Metals CAM III A		6020 Metals CAM III D	8082 PCB CAM V A	9012 Total Cyanide/PAC CAM VI A
					7196 Hex Cr CAM VI B
					MassDEP APH CAM IX A
					8330 Explosives CAM VIII A
					TO-15 VOC CAM IX B
					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	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?				Yes No 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 are required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?				Yes ✓ No
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability 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
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?				Yes ✓ No
All negative responses are addressed in a case narrative on the cover page of this report.					
<p><i>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.</i></p> <div style="text-align: right; margin-top: 20px;">  Nicole Leja Laboratory Director Date: 12/17/2013 </div>					

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 1.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1312005

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,2-Dibromo-3-chloropropane
1,4-Dioxane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1330279-BLK1
1330279-BS1
1330279-BSD1
S314697-ICV1
S315299-CCV1
TW-B1

Laboratory Control Samples:

1330279 BS/BSD

SW846 8260C

Laboratory Control Samples:

1330279 BS/BSD

Ethyl tert-butyl ether percent recoveries (72/69) are outside individual acceptance criteria, but within overall method allowances.
All reported results of the following samples are considered to have a potentially low bias:

TW-B1

Samples:

S315299-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (22.0%)
Acrylonitrile (26.7%)
Ethanol (20.7%)
Ethyl tert-butyl ether (-27.8%)
Methyl tert-butyl ether (-28.7%)
tert-Butylbenzene (27.8%)

This affected the following samples:

1330279-BLK1
1330279-BS1
1330279-BSD1
TW-B1

SB81988-01 *TW-B1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB81988-01RE1 *TW-B1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client: Environmental Compliance Services - Woburn, MA
Project: Global Wellesley - 453 Washington St / 95-220730
Work Order: SB81988
Sample(s) received on: 12/13/2013
Received by: Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

TW-B1

SB81988-01

Client Project #

95-220730

Matrix

Ground Water

Collection Date/Time

13-Dec-13 10:00

Received

13-Dec-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	D	µg/l	5.00	3.24	5	SW846 8260C	17-Dec-13	17-Dec-13	NAA	1330279	
67-64-1	Acetone	< 50.0	D	µg/l	50.0	12.8	5	"	"	"	"	"	
107-13-1	Acrylonitrile	< 2.50	D	µg/l	2.50	2.38	5	"	"	"	"	"	
71-43-2	Benzene	915	E, D	µg/l	5.00	3.34	5	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.00	D	µg/l	5.00	3.60	5	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.00	D	µg/l	5.00	3.55	5	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 2.50	D	µg/l	2.50	2.40	5	"	"	"	"	"	
75-25-2	Bromoform	< 5.00	D	µg/l	5.00	3.02	5	"	"	"	"	"	
74-83-9	Bromomethane	< 10.0	D	µg/l	10.0	5.70	5	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	57.8	D	µg/l	50.0	9.67	5	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.00	D	µg/l	5.00	2.81	5	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.00	D	µg/l	5.00	4.10	5	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.00	D	µg/l	5.00	3.72	5	"	"	"	"	"	
75-15-0	Carbon disulfide	< 10.0	D	µg/l	10.0	6.40	5	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.00	D	µg/l	5.00	2.74	5	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.00	D	µg/l	5.00	3.27	5	"	"	"	"	"	
75-00-3	Chloroethane	< 10.0	D	µg/l	10.0	5.00	5	"	"	"	"	"	
67-66-3	Chloroform	< 5.00	D	µg/l	5.00	3.44	5	"	"	"	"	"	
74-87-3	Chloromethane	< 10.0	D	µg/l	10.0	7.36	5	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.00	D	µg/l	5.00	3.96	5	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.00	D	µg/l	5.00	3.66	5	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	D	µg/l	10.0	6.00	5	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 2.50	D	µg/l	2.50	1.72	5	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	< 2.50	D	µg/l	2.50	1.80	5	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.00	D	µg/l	5.00	3.33	5	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.00	D	µg/l	5.00	3.34	5	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.00	D	µg/l	5.00	3.56	5	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.00	D	µg/l	5.00	3.12	5	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	D	µg/l	10.0	2.24	5	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.00	D	µg/l	5.00	3.40	5	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.00	D	µg/l	5.00	3.90	5	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.00	D	µg/l	5.00	2.44	5	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.00	D	µg/l	5.00	3.58	5	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.00	D	µg/l	5.00	4.16	5	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.00	D	µg/l	5.00	3.86	5	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.00	D	µg/l	5.00	4.04	5	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.00	D	µg/l	5.00	4.36	5	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.00	D	µg/l	5.00	3.18	5	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 2.50	D	µg/l	2.50	1.82	5	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 2.50	D	µg/l	2.50	2.50	5	"	"	"	"	"	
100-41-4	Ethylbenzene	243	D	µg/l	5.00	4.76	5	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2.50	D	µg/l	2.50	2.44	5	"	"	"	"	"	
591-78-6	2-Hexanone (MBK)	< 50.0	D	µg/l	50.0	3.29	5	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-B1

SB81988-01

Client Project #

95-220730

Matrix

Ground Water

Collection Date/Time

13-Dec-13 10:00

Received

13-Dec-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	5.10	D	µg/l	5.00	3.10	5	SW846 8260C	17-Dec-13	17-Dec-13	NAA	1330279	
99-87-6	4-Isopropyltoluene	< 5.00	D	µg/l	5.00	3.04	5	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	22.4	D	µg/l	5.00	3.26	5	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 50.0	D	µg/l	50.0	13.8	5	"	"	"	"	"	
75-09-2	Methylene chloride	< 10.0	D	µg/l	10.0	4.74	5	"	"	"	"	"	
91-20-3	Naphthalene	7.10	D	µg/l	5.00	2.90	5	"	"	"	"	"	
103-65-1	n-Propylbenzene	5.90	D	µg/l	5.00	3.79	5	"	"	"	"	"	
100-42-5	Styrene	< 5.00	D	µg/l	5.00	3.08	5	"	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	D	µg/l	5.00	3.36	5	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 2.50	D	µg/l	2.50	1.58	5	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.00	D	µg/l	5.00	3.72	5	"	"	"	"	"	
108-88-3	Toluene	1,780	E, D	µg/l	5.00	4.06	5	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.00	D	µg/l	5.00	1.88	5	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.00	D	µg/l	5.00	1.80	5	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 5.00	D	µg/l	5.00	3.92	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	D	µg/l	5.00	2.91	5	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.00	D	µg/l	5.00	3.21	5	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.00	D	µg/l	5.00	3.78	5	"	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	D	µg/l	5.00	3.14	5	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.00	D	µg/l	5.00	3.68	5	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	31.0	D	µg/l	5.00	3.78	5	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	6.55	D	µg/l	5.00	3.72	5	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.00	D	µg/l	5.00	4.04	5	"	"	"	"	"	
179601-23-1	m,p-Xylene	535	D	µg/l	10.0	8.20	5	"	"	"	"	"	
95-47-6	o-Xylene	248	D	µg/l	5.00	4.41	5	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 10.0	D	µg/l	10.0	7.21	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	D	µg/l	5.00	3.46	5	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 5.00	D	µg/l	5.00	3.60	5	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	8.40	D	µg/l	5.00	3.91	5	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	D	µg/l	5.00	3.64	5	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	D	µg/l	50.0	43.2	5	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 100	D	µg/l	100	60.0	5	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.0	D	µg/l	25.0	3.68	5	"	"	"	"	"	
64-17-5	Ethanol	< 2000	D	µg/l	2000	175	5	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	106		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	99		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	126		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	106		70-130 %	"	"	"	"	"

Re-analysis of Volatile Organic Compounds by SW846 8260

GS1

Prepared by method SW846 5030 Water MS*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TW-B1

SB81988-01

Client Project #

95-220730

Matrix

Ground Water

Collection Date/Time

13-Dec-13 10:00

Received

13-Dec-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	D	µg/l	50.0	32.4	50	SW846 8260C	17-Dec-13	17-Dec-13	NAA	1330279	
67-64-1	Acetone	< 500	D	µg/l	500	128	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 25.0	D	µg/l	25.0	23.8	50	"	"	"	"	"	
71-43-2	Benzene	1,040	D	µg/l	50.0	33.4	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 50.0	D	µg/l	50.0	36.0	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 50.0	D	µg/l	50.0	35.5	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 25.0	D	µg/l	25.0	24.0	50	"	"	"	"	"	
75-25-2	Bromoform	< 50.0	D	µg/l	50.0	30.2	50	"	"	"	"	"	
74-83-9	Bromomethane	< 100	D	µg/l	100	57.0	50	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 500	D	µg/l	500	96.7	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 50.0	D	µg/l	50.0	28.1	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 50.0	D	µg/l	50.0	41.0	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 50.0	D	µg/l	50.0	37.2	50	"	"	"	"	"	
75-15-0	Carbon disulfide	< 100	D	µg/l	100	64.0	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 50.0	D	µg/l	50.0	27.4	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 50.0	D	µg/l	50.0	32.7	50	"	"	"	"	"	
75-00-3	Chloroethane	< 100	D	µg/l	100	50.0	50	"	"	"	"	"	
67-66-3	Chloroform	< 50.0	D	µg/l	50.0	34.4	50	"	"	"	"	"	
74-87-3	Chloromethane	< 100	D	µg/l	100	73.6	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 50.0	D	µg/l	50.0	39.6	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 50.0	D	µg/l	50.0	36.6	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 100	D	µg/l	100	60.0	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 25.0	D	µg/l	25.0	17.2	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	< 25.0	D	µg/l	25.0	18.0	50	"	"	"	"	"	
74-95-3	Dibromomethane	< 50.0	D	µg/l	50.0	33.3	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 50.0	D	µg/l	50.0	33.4	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 50.0	D	µg/l	50.0	35.6	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 50.0	D	µg/l	50.0	31.2	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	D	µg/l	100	22.4	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 50.0	D	µg/l	50.0	34.0	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 50.0	D	µg/l	50.0	39.0	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 50.0	D	µg/l	50.0	24.4	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 50.0	D	µg/l	50.0	35.8	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 50.0	D	µg/l	50.0	41.6	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 50.0	D	µg/l	50.0	38.6	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 50.0	D	µg/l	50.0	40.4	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 50.0	D	µg/l	50.0	43.6	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 50.0	D	µg/l	50.0	31.8	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 25.0	D	µg/l	25.0	18.2	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 25.0	D	µg/l	25.0	25.0	50	"	"	"	"	"	
100-41-4	Ethylbenzene	210	D	µg/l	50.0	47.6	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 25.0	D	µg/l	25.0	24.4	50	"	"	"	"	"	

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Sample Identification

TW-B1

SB81988-01

Client Project #

95-220730

Matrix

Ground Water

Collection Date/Time

13-Dec-13 10:00

Received

13-Dec-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
591-78-6	2-Hexanone (MBK)	< 500	D	µg/l	500	32.9	50	SW846 8260C	17-Dec-13	17-Dec-13	NAA	1330279	
98-82-8	Isopropylbenzene	< 50.0	D	µg/l	50.0	31.0	50	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 50.0	D	µg/l	50.0	30.4	50	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 50.0	D	µg/l	50.0	32.6	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 500	D	µg/l	500	138	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 100	D	µg/l	100	47.4	50	"	"	"	"	"	
91-20-3	Naphthalene	< 50.0	D	µg/l	50.0	29.0	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 50.0	D	µg/l	50.0	37.9	50	"	"	"	"	"	
100-42-5	Styrene	< 50.0	D	µg/l	50.0	30.8	50	"	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	D	µg/l	50.0	33.6	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 25.0	D	µg/l	25.0	15.8	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 50.0	D	µg/l	50.0	37.2	50	"	"	"	"	"	
108-88-3	Toluene	2,660	D	µg/l	50.0	40.6	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 50.0	D	µg/l	50.0	18.8	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 50.0	D	µg/l	50.0	18.0	50	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 50.0	D	µg/l	50.0	39.2	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 50.0	D	µg/l	50.0	29.1	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 50.0	D	µg/l	50.0	32.1	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 50.0	D	µg/l	50.0	37.8	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	D	µg/l	50.0	31.4	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 50.0	D	µg/l	50.0	36.8	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 50.0	D	µg/l	50.0	37.8	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 50.0	D	µg/l	50.0	37.2	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 50.0	D	µg/l	50.0	40.4	50	"	"	"	"	"	
179601-23-1	m,p-Xylene	550	D	µg/l	100	82.0	50	"	"	"	"	"	
95-47-6	o-Xylene	218	D	µg/l	50.0	44.1	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 100	D	µg/l	100	72.1	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 50.0	D	µg/l	50.0	34.6	50	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 50.0	D	µg/l	50.0	36.0	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 50.0	D	µg/l	50.0	39.1	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 50.0	D	µg/l	50.0	36.4	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 500	D	µg/l	500	432	50	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 1000	D	µg/l	1000	600	50	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	D	µg/l	250	36.8	50	"	"	"	"	"	
64-17-5	Ethanol	< 20000	D	µg/l	20000	1750	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	105		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	126		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	110		70-130 %		"	"	"	"	"

Microextractable Organic Compounds*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

TW-B1

SB81988-01

Client Project #

95-220730

Matrix

Ground Water

Collection Date/Time

13-Dec-13 10:00

Received

13-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Microextractable Organic Compounds													
106-93-4	1,2-Dibromoethane (EDB)	< 0.0100		µg/l	0.0100	0.00740	1	SW846 8011	16-Dec-13	16-Dec-13	DS	1330131	
Extractable Petroleum Hydrocarbons													
<u>Fingerprinting by GC</u>													
<u>Prepared by method SW846 3510C</u>													
8006-61-9	Gasoline	Calculated as		mg/l	0.2	0.2	1	SW846 8100Mod.	16-Dec-13	16-Dec-13	SEP	1330133	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.2	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.2	1	"	"	"	"	"	
8032-32-4	Ligroin	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
	Hydraulic Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	Dielectric Fluid	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
	Unidentified	2.9		mg/l	0.2	0.05	1	"	"	"	"	"	
	Other Oil	Calculated as		mg/l	0.2	0.02	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	2.9		mg/l	0.2	0.02	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
3386-33-2	1-Chlorooctadecane	67			40-140 %			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	Field Preserved		N/A			1	EPA 200/6000 methods			CPA	1330144	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	16-Dec-13	16-Dec-13	arf	1330156	
7440-38-2	Arsenic	0.0050		mg/l	0.0040	0.0018	1	"	"	"	"	"	
7440-39-3	Barium	0.218		mg/l	0.0050	0.0007	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1	"	"	"	"	"	
7440-47-3	Chromium	0.0060		mg/l	0.0050	0.0009	1	"	"	"	"	"	
7439-89-6	Iron	18.0		mg/l	0.0150	0.0074	1	"	"	"	"	"	
7439-92-1	Lead	0.0239		mg/l	0.0075	0.0020	1	"	"	"	"	"	
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1	"	"	"	"	"	
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	16-Dec-13	16-Dec-13	LR	1330157	X
General Chemistry Parameters													
	Total Suspended Solids	114		mg/l	5.0	1.7	1	SM2540D	16-Dec-13	17-Dec-13	BD	1330190	X

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330279 - SW846 5030 Water MS										
Blank (1330279-BLK1)	Prepared & Analyzed: 17-Dec-13									
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330279 - SW846 5030 Water MS										
Blank (1330279-BLK1)					<u>Prepared & Analyzed: 17-Dec-13</u>					
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	50.9		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	50.7		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	63.7		µg/l		50.0		127	70-130		
Surrogate: Dibromofluoromethane	56.1		µg/l		50.0		112	70-130		
LCS (1330279-BS1)					<u>Prepared & Analyzed: 17-Dec-13</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.1		µg/l		20.0		116	70-130		
Acetone	22.5		µg/l		20.0		112	70-130		
Acrylonitrile	25.3		µg/l		20.0		127	70-130		
Benzene	20.2		µg/l		20.0		101	70-130		
Bromobenzene	22.3		µg/l		20.0		112	70-130		
Bromochloromethane	23.5		µg/l		20.0		118	70-130		
Bromodichloromethane	21.7		µg/l		20.0		108	70-130		
Bromoform	19.9		µg/l		20.0		100	70-130		
Bromomethane	20.8		µg/l		20.0		104	70-130		
2-Butanone (MEK)	22.7		µg/l		20.0		114	70-130		
n-Butylbenzene	19.0		µg/l		20.0		95	70-130		
sec-Butylbenzene	23.7		µg/l		20.0		119	70-130		
tert-Butylbenzene	25.6		µg/l		20.0		128	70-130		
Carbon disulfide	19.8		µg/l		20.0		99	70-130		
Carbon tetrachloride	22.3		µg/l		20.0		111	70-130		
Chlorobenzene	20.1		µg/l		20.0		100	70-130		
Chloroethane	22.0		µg/l		20.0		110	70-130		
Chloroform	21.7		µg/l		20.0		109	70-130		
Chloromethane	19.5		µg/l		20.0		98	70-130		
2-Chlorotoluene	21.3		µg/l		20.0		107	70-130		
4-Chlorotoluene	22.6		µg/l		20.0		113	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330279 - SW846 5030 Water MS										
LCS (1330279-BS1)	Prepared & Analyzed: 17-Dec-13									
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130		
Dibromochloromethane	21.3		µg/l		20.0		107	70-130		
1,2-Dibromoethane (EDB)	22.8		µg/l		20.0		114	70-130		
Dibromomethane	21.4		µg/l		20.0		107	70-130		
1,2-Dichlorobenzene	21.1		µg/l		20.0		106	70-130		
1,3-Dichlorobenzene	23.0		µg/l		20.0		115	70-130		
1,4-Dichlorobenzene	20.0		µg/l		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	20.9		µg/l		20.0		105	70-130		
1,1-Dichloroethane	20.9		µg/l		20.0		104	70-130		
1,2-Dichloroethane	23.2		µg/l		20.0		116	70-130		
1,1-Dichloroethene	20.5		µg/l		20.0		102	70-130		
cis-1,2-Dichloroethene	21.5		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	21.6		µg/l		20.0		108	70-130		
1,2-Dichloropropane	18.9		µg/l		20.0		94	70-130		
1,3-Dichloropropane	21.2		µg/l		20.0		106	70-130		
2,2-Dichloropropane	18.4		µg/l		20.0		92	70-130		
1,1-Dichloropropene	21.4		µg/l		20.0		107	70-130		
cis-1,3-Dichloropropene	18.0		µg/l		20.0		90	70-130		
trans-1,3-Dichloropropene	18.8		µg/l		20.0		94	70-130		
Ethylbenzene	21.7		µg/l		20.0		108	70-130		
Hexachlorobutadiene	23.1		µg/l		20.0		116	70-130		
2-Hexanone (MBK)	22.1		µg/l		20.0		111	70-130		
Isopropylbenzene	21.0		µg/l		20.0		105	70-130		
4-Isopropyltoluene	19.4		µg/l		20.0		97	70-130		
Methyl tert-butyl ether	14.3		µg/l		20.0		71	70-130		
4-Methyl-2-pentanone (MIBK)	21.8		µg/l		20.0		109	70-130		
Methylene chloride	20.7		µg/l		20.0		104	70-130		
Naphthalene	22.0		µg/l		20.0		110	70-130		
n-Propylbenzene	23.3		µg/l		20.0		117	70-130		
Styrene	21.7		µg/l		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	20.3		µg/l		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	22.8		µg/l		20.0		114	70-130		
Tetrachloroethene	22.4		µg/l		20.0		112	70-130		
Toluene	20.9		µg/l		20.0		104	70-130		
1,2,3-Trichlorobenzene	24.4		µg/l		20.0		122	70-130		
1,2,4-Trichlorobenzene	20.0		µg/l		20.0		100	70-130		
1,3,5-Trichlorobenzene	22.0		µg/l		20.0		110	70-130		
1,1,1-Trichloroethane	19.7		µg/l		20.0		98	70-130		
1,1,2-Trichloroethane	20.5		µg/l		20.0		102	70-130		
Trichloroethene	19.9		µg/l		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	23.9		µg/l		20.0		120	70-130		
1,2,3-Trichloropropane	21.5		µg/l		20.0		108	70-130		
1,2,4-Trimethylbenzene	22.6		µg/l		20.0		113	70-130		
1,3,5-Trimethylbenzene	23.1		µg/l		20.0		115	70-130		
Vinyl chloride	21.8		µg/l		20.0		109	70-130		
m,p-Xylene	42.6		µg/l		40.0		106	70-130		
o-Xylene	21.7		µg/l		20.0		109	70-130		
Tetrahydrofuran	22.3		µg/l		20.0		111	70-130		
Ethyl ether	21.2		µg/l		20.0		106	70-130		
Tert-amyl methyl ether	21.4		µg/l		20.0		107	70-130		
Ethyl tert-butyl ether	14.4		µg/l		20.0		72	70-130		
Di-isopropyl ether	17.4		µg/l		20.0		87	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330279 - SW846 5030 Water MS										
LCS (1330279-BS1)					<u>Prepared & Analyzed: 17-Dec-13</u>					
Tert-Butanol / butyl alcohol	175		µg/l		200		87	70-130		
1,4-Dioxane	208		µg/l		200		104	70-130		
trans-1,4-Dichloro-2-butene	18.3		µg/l		20.0		92	70-130		
Ethanol	483		µg/l		400		121	70-130		
Surrogate: 4-Bromofluorobenzene	52.4		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	51.4		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	61.0		µg/l		50.0		122	70-130		
Surrogate: Dibromofluoromethane	55.0		µg/l		50.0		110	70-130		
LCS Dup (1330279-BS1)					<u>Prepared & Analyzed: 17-Dec-13</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.9		µg/l		20.0		99	70-130	15	20
Acetone	23.0		µg/l		20.0		115	70-130	2	20
Acrylonitrile	23.5		µg/l		20.0		118	70-130	7	20
Benzene	19.1		µg/l		20.0		96	70-130	5	20
Bromobenzene	20.9		µg/l		20.0		104	70-130	7	20
Bromochloromethane	21.7		µg/l		20.0		109	70-130	8	20
Bromodichloromethane	20.5		µg/l		20.0		103	70-130	5	20
Bromoform	19.2		µg/l		20.0		96	70-130	4	20
Bromomethane	19.8		µg/l		20.0		99	70-130	5	20
2-Butanone (MEK)	23.4		µg/l		20.0		117	70-130	3	20
n-Butylbenzene	17.7		µg/l		20.0		88	70-130	7	20
sec-Butylbenzene	21.7		µg/l		20.0		108	70-130	9	20
tert-Butylbenzene	23.2		µg/l		20.0		116	70-130	10	20
Carbon disulfide	18.0		µg/l		20.0		90	70-130	10	20
Carbon tetrachloride	20.6		µg/l		20.0		103	70-130	8	20
Chlorobenzene	19.3		µg/l		20.0		96	70-130	4	20
Chloroethane	19.9		µg/l		20.0		100	70-130	10	20
Chloroform	20.5		µg/l		20.0		103	70-130	6	20
Chloromethane	18.1		µg/l		20.0		91	70-130	7	20
2-Chlorotoluene	19.5		µg/l		20.0		97	70-130	9	20
4-Chlorotoluene	21.0		µg/l		20.0		105	70-130	7	20
1,2-Dibromo-3-chloropropane	20.2		µg/l		20.0		101	70-130	5	20
Dibromochloromethane	20.5		µg/l		20.0		103	70-130	4	20
1,2-Dibromoethane (EDB)	21.9		µg/l		20.0		109	70-130	4	20
Dibromomethane	20.8		µg/l		20.0		104	70-130	3	20
1,2-Dichlorobenzene	19.7		µg/l		20.0		98	70-130	7	20
1,3-Dichlorobenzene	21.3		µg/l		20.0		106	70-130	8	20
1,4-Dichlorobenzene	18.6		µg/l		20.0		93	70-130	8	20
Dichlorodifluoromethane (Freon12)	17.9		µg/l		20.0		90	70-130	16	20
1,1-Dichloroethane	20.0		µg/l		20.0		100	70-130	4	20
1,2-Dichloroethane	22.2		µg/l		20.0		111	70-130	5	20
1,1-Dichloroethene	19.1		µg/l		20.0		95	70-130	7	20
cis-1,2-Dichloroethene	21.5		µg/l		20.0		108	70-130	0.2	20
trans-1,2-Dichloroethene	20.1		µg/l		20.0		100	70-130	7	20
1,2-Dichloropropane	18.1		µg/l		20.0		90	70-130	4	20
1,3-Dichloropropane	20.2		µg/l		20.0		101	70-130	5	20
2,2-Dichloropropane	16.7		µg/l		20.0		84	70-130	9	20
1,1-Dichloropropene	19.7		µg/l		20.0		98	70-130	9	20
cis-1,3-Dichloropropene	17.4		µg/l		20.0		87	70-130	4	20
trans-1,3-Dichloropropene	18.4		µg/l		20.0		92	70-130	2	20
Ethylbenzene	20.4		µg/l		20.0		102	70-130	6	20
Hexachlorobutadiene	21.3		µg/l		20.0		107	70-130	8	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330279 - SW846 5030 Water MS										
LCS Dup (1330279-BSD1)					<u>Prepared & Analyzed: 17-Dec-13</u>					
2-Hexanone (MBK)	22.0		µg/l		20.0		110	70-130	0.7	20
Isopropylbenzene	19.7		µg/l		20.0		99	70-130	6	20
4-Isopropyltoluene	18.6		µg/l		20.0		93	70-130	4	20
Methyl tert-butyl ether	14.1		µg/l		20.0		70	70-130	1	20
4-Methyl-2-pentanone (MIBK)	21.3		µg/l		20.0		106	70-130	2	20
Methylene chloride	19.6		µg/l		20.0		98	70-130	5	20
Naphthalene	21.1		µg/l		20.0		106	70-130	4	20
n-Propylbenzene	21.9		µg/l		20.0		110	70-130	6	20
Styrene	20.7		µg/l		20.0		104	70-130	5	20
1,1,1,2-Tetrachloroethane	18.9		µg/l		20.0		95	70-130	7	20
1,1,2,2-Tetrachloroethane	22.7		µg/l		20.0		113	70-130	0.7	20
Tetrachloroethene	20.1		µg/l		20.0		101	70-130	11	20
Toluene	19.1		µg/l		20.0		95	70-130	9	20
1,2,3-Trichlorobenzene	22.8		µg/l		20.0		114	70-130	7	20
1,2,4-Trichlorobenzene	18.6		µg/l		20.0		93	70-130	7	20
1,3,5-Trichlorobenzene	20.6		µg/l		20.0		103	70-130	7	20
1,1,1-Trichloroethane	18.3		µg/l		20.0		92	70-130	7	20
1,1,2-Trichloroethane	19.9		µg/l		20.0		100	70-130	3	20
Trichloroethene	18.2		µg/l		20.0		91	70-130	9	20
Trichlorofluoromethane (Freon 11)	21.2		µg/l		20.0		106	70-130	12	20
1,2,3-Trichloropropane	21.2		µg/l		20.0		106	70-130	2	20
1,2,4-Trimethylbenzene	21.1		µg/l		20.0		106	70-130	7	20
1,3,5-Trimethylbenzene	21.7		µg/l		20.0		108	70-130	6	20
Vinyl chloride	19.9		µg/l		20.0		100	70-130	9	20
m,p-Xylene	40.0		µg/l		40.0		100	70-130	6	20
o-Xylene	21.1		µg/l		20.0		106	70-130	3	20
Tetrahydrofuran	21.2		µg/l		20.0		106	70-130	5	20
Ethyl ether	20.6		µg/l		20.0		103	70-130	3	20
Tert-amyl methyl ether	20.7		µg/l		20.0		103	70-130	4	20
Ethyl tert-butyl ether	13.9	QM9	µg/l		20.0		69	70-130	4	20
Di-isopropyl ether	16.9		µg/l		20.0		84	70-130	3	20
Tert-Butanol / butyl alcohol	173		µg/l		200		86	70-130	1	20
1,4-Dioxane	203		µg/l		200		102	70-130	2	20
trans-1,4-Dichloro-2-butene	18.1		µg/l		20.0		90	70-130	1	20
Ethanol	455		µg/l		400		114	70-130	6	20
Surrogate: 4-Bromofluorobenzene	52.7		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	51.0		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	60.2		µg/l		50.0		120	70-130		
Surrogate: Dibromofluoromethane	55.5		µg/l		50.0		111	70-130		

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Microextractable Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330131 - General Preparation SVOC										
<u>Blank (1330131-BLK1)</u>										
1,2-Dibromoethane (EDB)	< 0.0100		µg/l	0.0100						
<u>LCS (1330131-BS1)</u>										
1,2-Dibromoethane (EDB)	0.109		µg/l	0.0100	0.100		109	50-150		
<u>LCS Dup (1330131-BSD1)</u>										
1,2-Dibromoethane (EDB)	0.105		µg/l	0.0100	0.100		105	50-150	4	50

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330133 - SW846 3510C										
Blank (1330133-BLK1)					<u>Prepared & Analyzed: 16-Dec-13</u>					
Gasoline	< 0.2		mg/l	0.2						
Fuel Oil #2	< 0.2		mg/l	0.2						
Fuel Oil #4	< 0.2		mg/l	0.2						
Fuel Oil #6	< 0.2		mg/l	0.2						
Motor Oil	< 0.2		mg/l	0.2						
Ligroin	< 0.2		mg/l	0.2						
Aviation Fuel	< 0.2		mg/l	0.2						
Hydraulic Oil	< 0.2		mg/l	0.2						
Dielectric Fluid	< 0.2		mg/l	0.2						
Unidentified	< 0.2		mg/l	0.2						
Other Oil	< 0.2		mg/l	0.2						
Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2						
Surrogate: 1-Chlorooctadecane	0.0318		mg/l		0.0500		64	40-140		
LCS (1330133-BS2)					<u>Prepared & Analyzed: 16-Dec-13</u>					
Fuel Oil #2	8.5		mg/l	0.2	10.0		85	40-140		
Surrogate: 1-Chlorooctadecane	0.0462		mg/l		0.0500		92	40-140		
LCS Dup (1330133-BSD2)					<u>Prepared & Analyzed: 16-Dec-13</u>					
Fuel Oil #2	8.3		mg/l	0.2	10.0		83	40-140	2	200
Surrogate: 1-Chlorooctadecane	0.0460		mg/l		0.0500		92	40-140		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330156 - SW846 3005A										
<u>Blank (1330156-BLK1)</u>					<u>Prepared & Analyzed: 16-Dec-13</u>					
Iron	< 0.0150		mg/l	0.0150						
Silver	< 0.0050		mg/l	0.0050						
Chromium	< 0.0050		mg/l	0.0050						
Barium	< 0.0050		mg/l	0.0050						
Cadmium	< 0.0025		mg/l	0.0025						
Lead	< 0.0075		mg/l	0.0075						
Selenium	< 0.0150		mg/l	0.0150						
Arsenic	< 0.0040		mg/l	0.0040						
<u>LCS (1330156-BS1)</u>					<u>Prepared & Analyzed: 16-Dec-13</u>					
Iron	1.31		mg/l	0.0150	1.25		105	85-115		
Arsenic	1.25		mg/l	0.0040	1.25		100	85-115		
Selenium	1.26		mg/l	0.0150	1.25		101	85-115		
Lead	1.21		mg/l	0.0075	1.25		97	85-115		
Chromium	1.26		mg/l	0.0050	1.25		101	85-115		
Barium	1.25		mg/l	0.0050	1.25		100	85-115		
Silver	1.17		mg/l	0.0050	1.25		94	85-115		
Cadmium	1.27		mg/l	0.0025	1.25		102	85-115		
<u>LCS Dup (1330156-BSD1)</u>					<u>Prepared & Analyzed: 16-Dec-13</u>					
Iron	1.34		mg/l	0.0150	1.25		107	85-115	2	20
Silver	1.18		mg/l	0.0050	1.25		94	85-115	0.7	20
Selenium	1.27		mg/l	0.0150	1.25		101	85-115	0.6	20
Lead	1.22		mg/l	0.0075	1.25		98	85-115	1	20
Chromium	1.27		mg/l	0.0050	1.25		101	85-115	0.6	20
Cadmium	1.28		mg/l	0.0025	1.25		102	85-115	0.6	20
Barium	1.27		mg/l	0.0050	1.25		102	85-115	1	20
Arsenic	1.26		mg/l	0.0040	1.25		100	85-115	0.5	20

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330157 - EPA200/SW7000 Series										
<u>Blank (1330157-BLK1)</u>										
Mercury	< 0.00020		mg/l	0.00020						
<u>LCS (1330157-BS1)</u>										
Mercury	0.00463		mg/l	0.00020	0.00500		93	85-115		
<u>Duplicate (1330157-DUP1)</u>										
Mercury	< 0.00020		mg/l	0.00020		BRL				20
<u>Matrix Spike (1330157-MS1)</u>										
Mercury	0.00511		mg/l	0.00020	0.00500	BRL	102	80-120		
<u>Matrix Spike Dup (1330157-MSD1)</u>										
Mercury	0.00512		mg/l	0.00020	0.00500	BRL	102	80-120	0.3	20
<u>Post Spike (1330157-PS1)</u>										
Mercury	0.00482		mg/l	0.00020	0.00500	BRL	96	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1330190 - General Preparation										
<u>Blank (1330190-BLK1)</u>								<u>Prepared: 16-Dec-13 Analyzed: 17-Dec-13</u>		
Total Suspended Solids	< 5.0		mg/l	5.0						
<u>LCS (1330190-BS1)</u>								<u>Prepared: 16-Dec-13 Analyzed: 17-Dec-13</u>		
Total Suspended Solids	98.0		mg/l	10.0	100		98	90-110		

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
- Fuel Oil #4 - includes #4 fuel oil
- Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
- Motor Oil - includes virgin and waste automobile oil
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
- Aviation Fuel - includes kerosene, Jet A and JP-4
- Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

ATTACHMENT III



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 7, 2013

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Brett Hillman of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

- Eastern cougar and gray wolf are considered extirpated in Massachusetts.
- Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
- Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

**Remediation General Permit
Appendix I**

Areas of Critical Environmental Concern (ACEC) in Massachusetts

This appendix presents the June 2009 list of Massachusetts ACECs, Towns with ACECs within their Boundaries, and a map showing ACECs. If the project proposed is located in one of the communities listed on the “Towns with ACECs within their Boundaries”, the project may be located in an ACEC.

To confirm whether the project location is in an ACEC, contact the local Conservation Commission or the Massachusetts Department of Conservation & Recreation (DCR) ACEC program at:

Elizabeth Sorenson, Director
ACEC Program
Massachusetts Department of Conservation and Recreation
Bureau of Planning and Resource Protection
251 Causeway St., Ste. 700, Boston, MA 02114-2104
Phone: 617-626-1394
Email: Elizabeth.Sorenson@state.ma.us
Fax: 617-626-1349

For further information, please reference the Massachusetts DCR ACEC Program Home website at: <http://www.mass.gov/dcr/stewardship/acec/index.htm>

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

June 2009

Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

Bourne Back River

(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp

(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley

(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed

(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor

(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog

(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills

(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)

(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed

(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed

(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp

(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay

(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin

(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed

(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds

(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary

(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag

(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay

(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River

(160 acres, 1980) Bourne

Rumney Marshes

(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System

(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin

(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit

(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed

(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River

(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay

(2,580 acres, 1979) Falmouth and Mashpee

Weir River

(950 acres, 1986) Cohasset, Hingham, and Hull

Wellfleet Harbor

(12,480 acres, 1989) Eastham, Truro, and Wellfleet

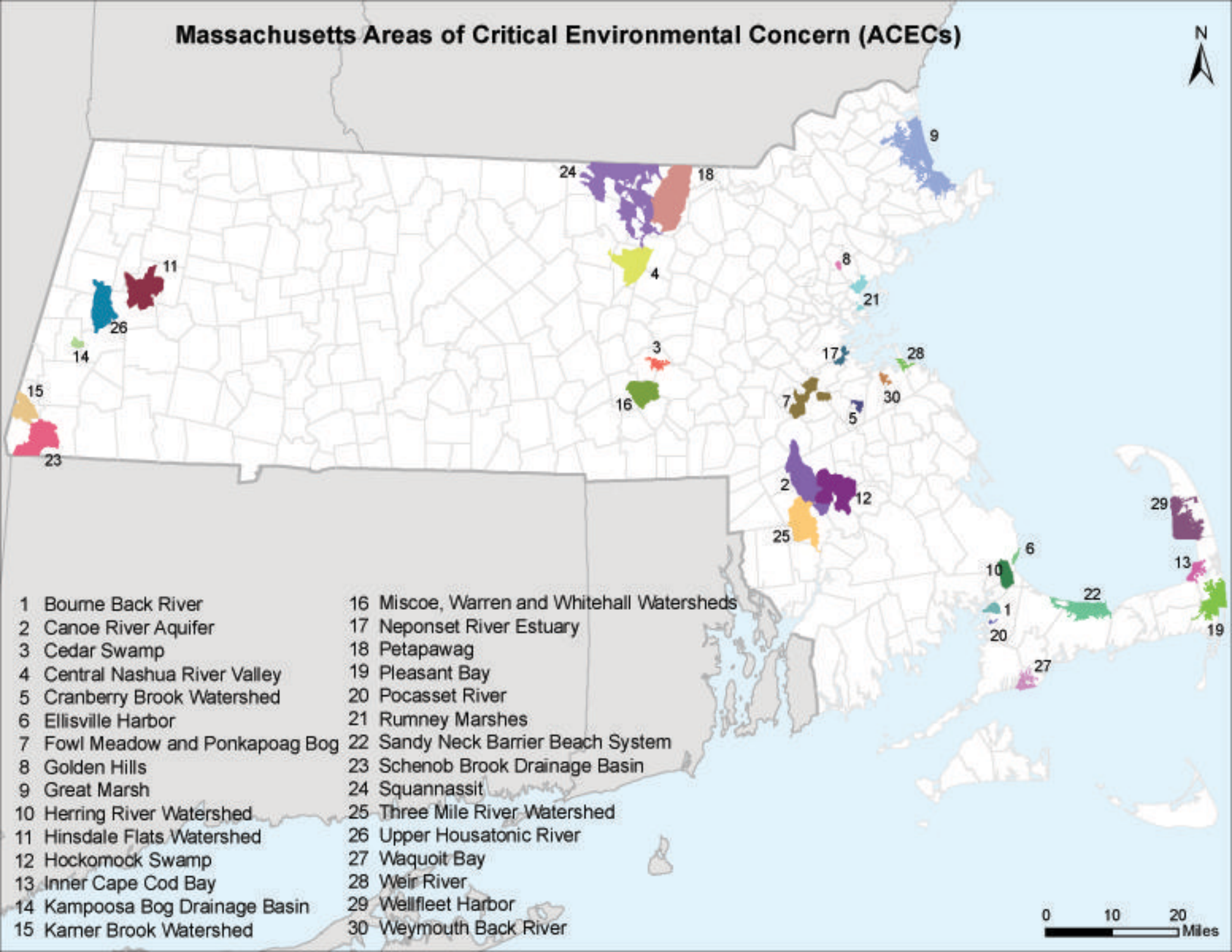
Weymouth Back River

(800 acres, 1982) Hingham and Weymouth

Towns with ACECs within their Boundaries**June 2009**

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay		Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Truro	Wellfleet Harbor
		Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
	Squannassit	Upton	Miscoe-Warren-Whitehall Watersheds
Harvard	Central Nashua River Valley		
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
		Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River		
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

Massachusetts Areas of Critical Environmental Concern (ACECs)



0 10 20 Miles

- | | |
|---------------------------------|--|
| 1 Bourne Back River | 16 Miscoe, Warren and Whitehall Watersheds |
| 2 Canoe River Aquifer | 17 Neponset River Estuary |
| 3 Cedar Swamp | 18 Petapawag |
| 4 Central Nashua River Valley | 19 Pleasant Bay |
| 5 Cranberry Brook Watershed | 20 Pocasset River |
| 6 Ellisville Harbor | 21 Rumney Marshes |
| 7 Fowl Meadow and Ponkapoag Bog | 22 Sandy Neck Barrier Beach System |
| 8 Golden Hills | 23 Schenob Brook Drainage Basin |
| 9 Great Marsh | 24 Squannassit |
| 10 Herring River Watershed | 25 Three Mile River Watershed |
| 11 Hinsdale Flats Watershed | 26 Upper Housatonic River |
| 12 Hockomock Swamp | 27 Waquoit Bay |
| 13 Inner Cape Cod Bay | 28 Weir River |
| 14 Kampoosa Bog Drainage Basin | 29 Wellfleet Harbor |
| 15 Kame Brook Watershed | 30 Weymouth Back River |

MassDEP - Bureau of Waste Site Cleanup

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

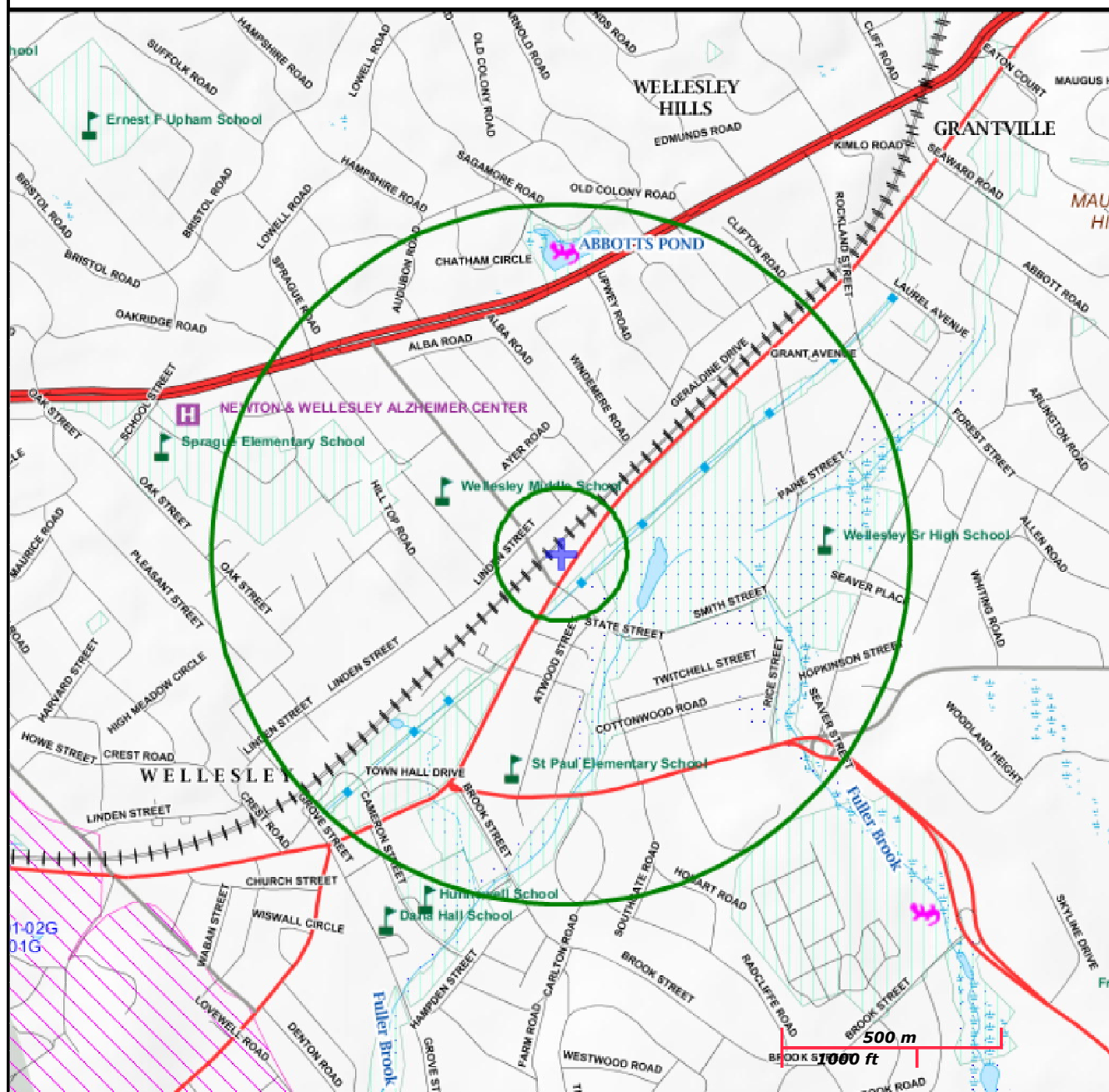
MOBIL #2723
453 WASHINGTON STREET WELLESLEY, MA
3-000031667

NAD83 UTM Meters:
5206421mN, -7935572mE (Zone: 18)
July 29, 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 responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<http://www.mass.gov/mqgis/>



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, WPA, 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.

ATTACHMENT IV

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Wellesley; Street Name: washington; Resource Type(s): ü, Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
WEL.211	Saint John the Evangelist Church	Washington St	Wellesley	1881
WEL.438	East Lodge - Wellesley College	Washington St	Wellesley	1869
WEL.442	Barn, The - Recreation and Exercise Building	Washington St	Wellesley	1862
WEL.447	Durant Cottage Homestead - Wellesley College	Washington St	Wellesley	1850
WEL.476	Wellesley College Club - Wellesley College	Washington St	Wellesley	1963
WEL.920	Lovewell Shoe Factory Site	Washington St	Wellesley	1868
WEL.946	Cheney Bridge	Washington St	Wellesley	1897
WEL.947	Washington Street Bridge	Washington St	Wellesley	1932
WEL.308	Parker House	44 Washington St	Wellesley	1851
WEL.404		51-57 Washington St	Wellesley	1924
WEL.39	North School House	56 Washington St	Wellesley	1858
WEL.53	Bullock - Locke House	76 Washington St	Wellesley	1873
WEL.77	Valentine, Mary House	82 Washington St	Wellesley	1861
WEL.486	Morse, Frank G. House	85 Washington St	Wellesley	1897
WEL.341	Beal, Capt. Peter M. House	103 Washington St	Wellesley	1880
WEL.1485	Beal, Capt. Peter M. Carriage House	103 Washington St	Wellesley	1848
WEL.292	Flanagan, Bridget House	119 Washington St	Wellesley	1865
WEL.293	Fahey, Honora House	123 Washington St	Wellesley	1870
WEL.100	Lincoln, John L. House	130 Washington St	Wellesley	1865
WEL.263	Lincoln House	135 Washington St	Wellesley	1865
WEL.49	Hazelton - Barton House	162 Washington St	Wellesley	1848
WEL.225	Stone - Fuller House	189 Washington St	Wellesley	1848
WEL.24	Wellesley Hills Congregational Church Parsonage	196 Washington St	Wellesley	1868
WEL.280	Lincoln - Shurtleff House	200 Washington St	Wellesley	1862
WEL.207	First Congregational Church of Wellesley Hills	207 Washington St	Wellesley	1902
WEL.99	Wellesley Hills Branch Library	210 Washington St	Wellesley	1927

Inv. No.	Property Name	Street	Town	Year
WEL.1487	Wilder, Charles T. Barn	211 Washington St	Wellesley	1865
WEL.60	Wellesley Friendly Aid Building	219 Washington St	Wellesley	1883
WEL.33	Dadmun, Daniel House	229 Washington St	Wellesley	1824
WEL.321	Ware, Dexter House	251 Washington St	Wellesley	1809
WEL.408	McLeod Block	253 Washington St	Wellesley	1886
WEL.406	Hale's Magnovox	254 Washington St	Wellesley	1940
WEL.919	Wellesley Hills Square Clock Tower	305 Washington St	Wellesley	1928
WEL.979	Elm Park	305 Washington St	Wellesley	1908
WEL.980	Elm Park Drinking Fountain	305 Washington St	Wellesley	1920
WEL.981	Elm Park Stone Entrance Pillars	305 Washington St	Wellesley	2004
WEL.198	Unitarian Church of Wellesley Hills	309 Washington St	Wellesley	1888
WEL.470	Livermore - Rice House	309 Washington St	Wellesley	1874
WEL.411	Institute Building	316 Washington St	Wellesley	1912
WEL.490	Stanwood, Frederick House	323 Washington St	Wellesley	1916
WEL.145	Intermediate Building	324 Washington St	Wellesley	1894
WEL.231	Parker - Peck House	325 Washington St	Wellesley	1868
WEL.413	Fraser's Flower Shop	330 Washington St	Wellesley	1941
WEL.414	Belvedere Apartments	336 Washington St	Wellesley	1930
WEL.21	Boston and Albany Railroad Station	339 Washington St	Wellesley	1885
WEL.415	Wellesley Hills Trust Company	342 Washington St	Wellesley	1928
WEL.332	DeFazio Building	346-360 Washington St	Wellesley	1889
WEL.28	Wellesley Community Playhouse	380-384 Washington St	Wellesley	1921
WEL.416	Maddix, Forrest N. Commercial Block	400 Washington St	Wellesley	1924
WEL.102	Wellesley Hills Railroad Station and Post Office	404 Washington St	Wellesley	1855
WEL.268	Grantville School	408-410 Washington St	Wellesley	1855
WEL.93	McIntosh, Sylvester House	414 Washington St	Wellesley	1869
WEL.354	McIntosh, Sylvester House	418 Washington St	Wellesley	1868
WEL.355	McIntosh, Sylvester House	422 Washington St	Wellesley	1869
WEL.356	Coulter, George E. House	428 Washington St	Wellesley	1871
WEL.357	Coulter, George E. House	432 Washington St	Wellesley	1874
WEL.118	Hendrick, Edmund G. - Garrett, Joseph House	465 Washington St	Wellesley	1854
WEL.43	Kingsbury House	477 Washington St	Wellesley	1811
WEL.139	Buck, Augustus H. House	496 Washington St	Wellesley	1878
WEL.204	Saint Paul Catholic Church	502 Washington St	Wellesley	1916
WEL.1	Wellesley Town Hall	525 Washington St	Wellesley	1882
WEL.420	Norman Block	540-550A Washington St	Wellesley	1910
WEL.422	Waban Block	564-570 Washington St	Wellesley	1915
WEL.423	Morton Block	570-574 Washington St	Wellesley	1929

Inv. No.	Property Name	Street	Town	Year
WEL.424	Holman Block	573-587 Washington St	Wellesley	1922
WEL.95	Wellesley Inn, The	576 Washington St	Wellesley	1860
WEL.380	Grant, Daniel House	592A Washington St	Wellesley	1868
WEL.378	Little, Elbridge House	594 Washington St	Wellesley	1869
WEL.379	Little, Elbridge Barn	594R Washington St	Wellesley	1869
WEL.260	Kilborn - Wiswall House	599 Washington St	Wellesley	1865
WEL.383	Ryan, Edward H. House	600 Washington St	Wellesley	1904
WEL.202	Saint Andrew's Episcopal Church	618 Washington St	Wellesley	1894
WEL.120	Stevens, Francis H. House	619 Washington St	Wellesley	1876
WEL.185	Smith, Sarah House	626 Washington St	Wellesley	1896
WEL.186	Harris, Mary House	629 Washington St	Wellesley	1895
WEL.15	Cunningham, Robert House - Wellesley College	631 Washington St	Wellesley	1830
WEL.187	Lovewell, Charles House - Elms, The	637 Washington St	Wellesley	1922
WEL.188	Lovewell, Charles Baker House - Wellesley College	641 Washington St	Wellesley	1848
WEL.80	Gray, James House - Wellesley College	672 Washington St	Wellesley	1861
WEL.477	Webber - Durant Estate	735 Washington St	Wellesley	1854
WEL.17	Smith, Capt. Aaron House - Hunnewell Estate	745 Washington St	Wellesley	1755
WEL.234	Clarke, W. L. House - Wellesley College	756 Washington St	Wellesley	1873
WEL.131	Lower Lodge - Hunnewell Estate	811 Washington St	Wellesley	1866
WEL.135	Pines, The - Hunnewell Estate	828 Washington St	Wellesley	1871
WEL.127	'Wellesley' - Hunnewell Estate	845 Washington St	Wellesley	1851
WEL.1481	Wellesley Summer House - Hunnewell Estate	845 Washington St	Wellesley	1852
WEL.133	Cottage, The - Hunnewell Estate	848 Washington St	Wellesley	1871
WEL.130	Upper Lodge - Hunnewell Estate	849 Washington St	Wellesley	1865
WEL.128	Gardner's Cottage - Hunnewell Estate	855 Washington St	Wellesley	1855
WEL.1479	Kingsley House	860 Washington St	Wellesley	1970
WEL.19	Morrill, Dr. Isaac House - Hunnewell Estate	863 Washington St	Wellesley	1775
WEL.134	Oaks, The - Hunnewell Estate	866 Washington St	Wellesley	1892
WEL.1478	Oaks, The Garage	866R Washington St	Wellesley	
WEL.136	Caretaker's House - Hunnewell Estate	890 Washington St	Wellesley	1901
WEL.3	Welles - Richardson House - Hunnewell Estate	891 Washington St	Wellesley	1763
WEL.126	Hunnewell Farm - Hunnewell Estate	901 Washington St	Wellesley	1765
WEL.1480	Hunnewell Farm Barn - Hunnewell Estate	901 Washington St	Wellesley	1884