

SOVEREIGN CONSULTING INC.

April 12, 2007
DHL #21070219251

US Environmental Protection Agency
RGP-NOI Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: **NPDES Remediation General Permit**
Vicinity of the Former Texaco-Branded Service Station
1580 Turnpike Street, Stoughton, Massachusetts
MassDEP RTN 4-15836

To Whom It May Concern:

On behalf of Motiva Enterprises LLC, Sovereign Consulting Inc. (Sovereign) is submitting the attached National Pollutant Discharge Elimination System (NPDES) Remediation General Permit Application for the above-referenced disposal site. This permit application was prepared to address petroleum impacted groundwater from a historic release at 1580 Turnpike Street that has been detected in groundwater in the vicinity of 1589 Turnpike Street. Development activities at 1589 Turnpike Street are scheduled to begin the week of April 16, 2007 and will require groundwater dewatering, treatment, and discharge, in accordance with NPDES regulations. This project is also regulated under the Massachusetts Contingency Plan 310 CMR 40.0000.

If you have any questions regarding this submittal, please feel free to contact the undersigned or Mr. David B. Weeks of Motiva Enterprises LLC (Motiva) at 845-462-5225.

Sincerely,
SOVEREIGN CONSULTING INC.

Neil R. Schofield
Project Manager

ON BEHALF OF
Eric D. Simpson, LSP, PG
Operations Manager

Attachments: NPDES General Permit - Notice of Intent Submittal

cc: Mr. David B. Weeks, Motiva Enterprises LLC
L. Lambrolopous, Property Owner
Town of Stoughton
Massachusetts Department of Revenue - 21J
Sovereign File: EQ808
Edens and Avant/GZA Associates.
Massachusetts Department of Environmental Protection



Environmental services executed safely and consistently.

SOVEREIGN CONSULTING INC.

NPDES REMEDIATION GENERAL PERMIT - NOI SUBMITTAL

Former Texaco-Branded Service Station
1589 Turnpike Street
Stoughton, Massachusetts 02072
Location # 100074

MassDEP RTN 4-15836

April 12, 2007

Prepared for:

Motiva Enterprises LLC
PMB 301, 1830 South Road, Unit 24
Wappingers Falls, New York 12590

Prepared by:

Sovereign Consulting Inc.
1600 Boston Providence Highway
Suite #138
Walpole, MA 02081

Sovereign File #EQ808

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1.0 INTRODUCTION

Sovereign Consulting, Inc, (Sovereign) prepared this NPDES Remediation General Permit ("RGP") application package for a groundwater dewatering project in the vicinity of the former Texaco-branded service station at 1580 Turnpike Street in Stoughton, Massachusetts on behalf of Motiva Enterprises LLC (Motiva). The site is identified by the Massachusetts Department of Environmental Protection as Release Tracking Number (RTN) 4-15836 and is regulated in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. This application specifically addresses petroleum impacted groundwater that has been identified within the disposal site limits of MassDEP RTN 4-15836 and may be encountered during off-site development activities at 1589 Turnpike Street emanating from the former Texaco station. Permits for construction dewatering activities unrelated to the petroleum impacted groundwater are the responsibility of a third party that is not associated with Motiva Enterprises LLC. A Site Location Map and discharge location is provided as **Figure 1** and a Site Plan, depicting the treatment system location and relevant site features, is attached as **Figure 2**. **Figure 3** depicts the process and instrumentation diagram for the treatment system.

2.0 PROJECT SUMMARY

2.1 Site Description

Motiva is currently conducting site remediation activities at the former Texaco station located at 1580 Turnpike Street in accordance with the MCP. Assessment activities conducted by Motiva have identified petroleum related compounds in groundwater underlying the former Texaco station location, the Turnpike Street right-of-way, and a portion of the property at 1589 Turnpike Street.

Development activities are being conducted by a third party for the vacant property at 1589 Turnpike Street and will include construction of a retail department store and associated parking areas. These development activities include grading and construction of a permanent retaining wall immediately south of Turnpike Street and a minimum of ten feet into the groundwater table likely collecting petroleum impacted groundwater emanating from the area of the former Texaco station. In accordance with NPDES regulations, this impacted groundwater will require treatment to remove petroleum constituents prior to draining into a stormwater catch basin that discharges into an unnamed pond, then to Bear Swamp and finally to Three Swamp Brook (unclassified surface water body per 314 CMR 4.00). A Copy of the Massachusetts Year 2006 Integrated List of Waters for the Boston Harbor Neponset River Watershed is included in **Appendix A**.

In accordance with Part I.A.4 and Appendix VII of the Notice of Intent, the applicant or owner must identify and determine if endangered species, critical habitats, essential fish habitat, or national historic places are present or will be adversely affected by the discharge location.

There are no registered historic places within 500' of the site. Sovereign has compiled a list of endangered and species of concern within the Town of Stoughton, MA. Four species of concern including the shortnose sturgeon, dwarf wedge mussel, bog turtle, and northern redbelly cooter were not present pursuant to USEPA Endangered Species Act Review Procedures website (<http://cfpub.epa.gov/npdes/stormwater/esa.cfm>). A copy of the list is provided in **Appendix B**.

The construction dewatering will be accomplished via a drain at the toe of slope along Turnpike Street and a series of sumps directing the impacted groundwater to a temporary groundwater remediation trailer location shown on the attached Site Plan and **Figure 2**. Sovereign is coordinating the delivery of the treatment system to the site the week of April 16, 2007. Once the treatment system is delivered, temporary electrical service will be provided. The treatment system will utilize bag filters, an air stripper, equalization tank, and liquid phase activated carbon units to treat the petroleum impacted groundwater. Refer to **Figure 3** for a Process and Instrumentation Diagram. Several fractionization tanks both prior to treatment and after treatment will be used to ensure that applicable NPDES permit discharge limits are maintained before the groundwater is actually discharged to the catch basin. The project is expected to last between one to two years for initial dewatering and may be extended as final site conditions require.

2.2 Initial Sampling

Since the remediation system has not been constructed, groundwater samples from a monitoring well located at 1589 Turnpike Street (JBMW-1) were collected and analyzed by a State of Massachusetts certified laboratory for the parameters required by the RGP Permit on March 7, 2007. The final data packages and associated quality control/ quality assurance ("QA/QC") documents are enclosed in **Appendix C**.

The sample results from monitoring well JBMW-1 have been summarized and included in the Notice of Intent provided as **Appendix D**. The sample results from JBMW-1 detected metals, specifically Iron (Fe) above the Appendix III 0-5 dilution range limitations at a concentration of 9.8 mg/L, which is above the maximum permissible daily discharge limit of 5 mg/L utilizing the calculated 5-10 range dilution factor. This metal is naturally occurring in the groundwater, and is not associated with the former Texaco station operations. Motiva anticipates that the treatment system will remove the majority of dissolved iron from the water stream and further dilution should occur prior to discharge to Bear Swamp and Three Swamp Brook, both unclassified surface water bodies per 314 CMR 4.00. If the initial sampling results indicate that dissolved iron exceeds the effluent limits in Appendix III, Motiva requests a 60 day time period to comply with the iron limit in accordance with Question and Answer 14 of the NOI guidelines "Very Helpful Information and Frequently Asked Questions". This 60 day timeframe will be utilized to determine if site specific metal limitations from the receiving stream, downstream of the discharge point are higher than the Appendix IV 5-10 dilution range limitations, which were calculated by the EPA using a MA statewide average hardness of 50 mg/l CaCO₃. Once the results are received, Motiva may reserve the right to submit an individual NPDES application

as specified in the *Response to Comments on the October 2004 Proposed Remediation General Permit* ("*Response to Comments*") document posted on the EPA website. If results indicate site specific metal limitations are lower than 5,000 ug/L, the 60 day timeframe will be utilized to bring system effluent limitations into compliance with the effluent limit of 5,000 ug/L.

Specific dilution factors were not available from the United States Geological Survey (USGS) website (<http://streamstats.usgs.gov/gagepages>) for the Three Swamp Brook, however, a stream flow statistic report was available for the Massapoag Brook at Canton, MA (USGS Station 01105270), which is a similar size brook located in the Boston Harbor Neponset River watershed. Using the 7Q10 value for from this location, a dilution factor of 32.3 was calculated. A copy of the dilution Factor Calculation and stream stat data has been included in **Appendix E**.

The NPDES Remediation General Permit and associated *Response to Comments* document, allow the permittee to request revisions to the permit conditions based upon site-specific conditions. The following is a list of the requested revisions, specifically alternate sampling methodologies for this discharge.

TOTAL CYANIDE

Appendix VI of the NPDES RGP specifies the test method for Total Cyanide is 335.4. This method has not been approved for use to date, therefore method 335.3 was utilized.

APPROVAL OF ALTERNATE MRL TOTAL ZINC

The minimum reportable limits (MRL) listed for Total Zinc using an ICP test method is 10 ug/l. A survey of laboratories showed that the lowest MRL obtainable was 20 ug/l. Thus, Motiva is requesting the USEPA accept this alternate MRL. The laboratory QA/QC data deliverable package has been enclosed for your convenience.

TOTAL COPPER

The ML listed for Total Copper using an ICP test method is 5 ug/l. A survey of laboratories showed that the lowest MRL obtainable was in the range of 10 ug/l. Thus we are requesting the USEPA accept this alternate MRL.

2.3 Permit Contact Information and Schedule

Sovereign is performing this work under the supervision of Motiva personnel and as such, Motiva is considered the Owner and Operator in accordance with the RGP. Contact information for Motiva is as follows and is also included in the Notice of Intent Form:

Owner and Operator

Motiva Enterprises LLC

Contact: David Weeks

1830 South Road, Unit 24, PMB301

Wappingers Falls, NY 12590

Tel: (845) 462-5225

Motiva and Sovereign are coordinating this work with the third party developer and based on discussions with the aforementioned, work is scheduled to commence on or about the week of April 16, 2007. The treatments system and fractionization tanks are scheduled to be in place on or about April 16th with actual groundwater pumping to begin sometime following that date and initially pumped into the fractionization tanks. However, discharge to the stormwater catch basin will not commence until a permit and discharge limits are obtained from the USEPA.

FIGURES

CONTROL PANEL	
1. MET LISTED	YES
2. DEAD-FRONT	YES
3. VOLTAGE	220
4. PHASE	3
5. AUTO RESTART	YES
6. BREAKERS IN PANEL	YES
7. HOUR METERS	NO
8. AMP METERS	NO
9. NDA AND RESET BUTTON	OWS PUMP SUCTION PUMP AST BLOWER, PUMP
10. OXIDIZER INTERLOCK	NO
11. PLC OK?	YES
12. 7/24 TIMER	NO
13. SURGE PROTECTOR	YES
14. PHASE MONITOR	YES
15. PANEL TRANSFORMER	YES
16. FAN IN PANEL	NO
17. TELEMETRY	EDS 31 V/ CSH
18. AUTODIALER	NO
19. BATTERY BACKUP	YES

8 X 30' ENCLOSED TRAILER
THREE 7200LB AXLES
ELECTRIC BRAKES
INSULATED

SHEET TITLE
SYSTEM
LAYOUT

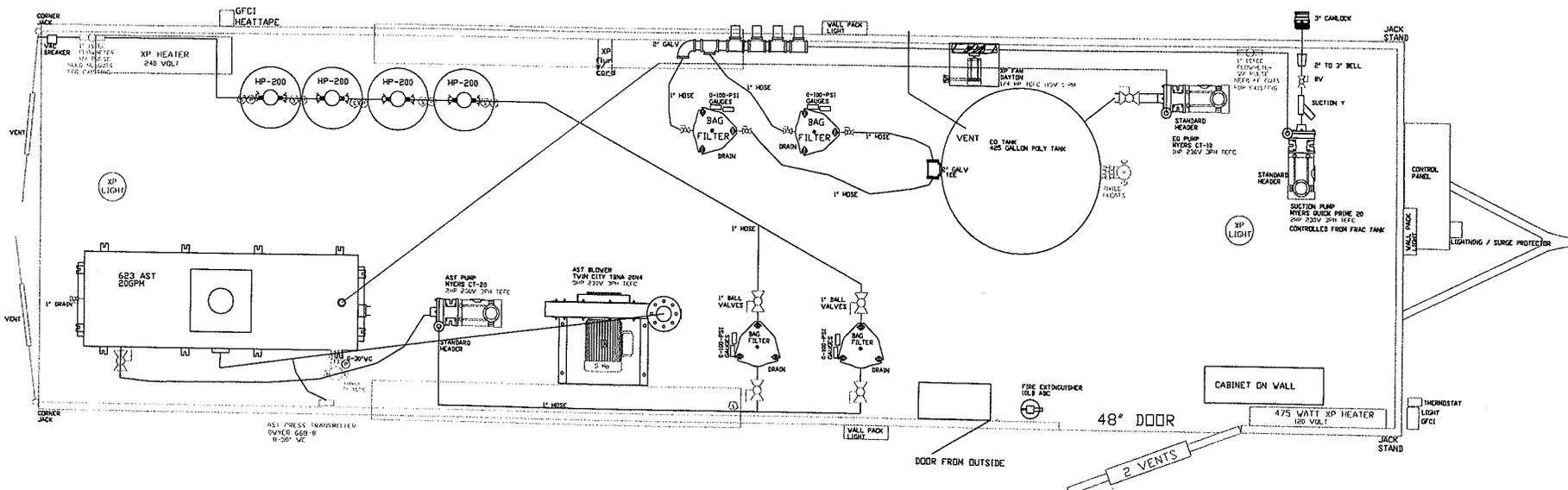
SOVEREIGN CONSULTING
TARGET AND TREAT TRAILER
PLAN VIEW



P.R.M.
PRODUCT RECOVERY MANAGEMENT
DIVISION OF PHILLIPS ELECTRIC

DESIGNED	N/A	JOB #	WO-001548
DRAWN	G.A.C.	DATE:	3/07
CHECKED	N/A	REV #:	3

FIGURE 1



APPENDIX A

Appendix 4 Waterbody Segments and Integrated List Categories by Major Watershed

NAME	SEGMENT ID	DESCRIPTION	SIZE	CATEGORY
Quincy Bay (70904)	MA70-05_2006	Quincy Bay, north of the class SA waters (segment MA70-04), Quincy to the line between Moon Head and Nut Island, Quincy.	4.8 sq mi	5
Winthrop Bay (70908)	MA70-10_2006	From the tidal flats at Coleridge Street, East Boston to a line between Logan International Airport and Point Shirley, East Boston/Winthrop.	1.7 sq mi	5
~~Boston Harbor: Mystic				
Aberjona River (7138350)	MA71-01_2006	Source just south of Birch Meadow Drive, Reading to inlet Upper Mystic Lake at Mystic Valley Parkway, Winchester.	9.2 miles	5
Alewife Brook (7138250)	MA71-04_2006	Outlet of Little Pond, Belmont to confluence with Mystic River, Arlington/Somerville.	2.3 miles	5
Bellevue Pond (71004)	MA71004_2006	Medford	2.1 acres	3
Blacks Nook (71005)	MA71005_2006	Cambridge	2.2 acres	5
Chelsea River (7138100)	MA71-06_2006	Confluence with Mill Creek, Chelsea/Revere to confluence with Mystic River, Chelsea/East Boston/Charlestown.	0.39 sq mi	5
Clay Pit Pond (71011)	MA71011_2006	Belmont	11.9 acres	5
Ell Pond (71014)	MA71014_2006	Melrose	23.3 acres	5
Hills Pond (71018)	MA71018_2006	Arlington	2.2 acres	3
Horn Pond (71019)	MA71019_2006	Woburn	108 acres	5
Judkins Pond (71021)	MA71021_2006	Winchester	2.8 acres	5
Lower Mystic Lake (71027)	MA71027_2006	Arlington	92.8 acres	5
Malden River (7138200)	MA71-05_2006	Headwaters south of Exchange Street, Malden to confluence with Mystic River, Everett/Medford.	2.5 miles	5
Mill Brook (7138300)	MA71-07_2006	Outlet of Arlington Reservoir to inlet of Lower Mystic Lake, Arlington (portions culverted underground).	2.8 miles	5
Mill Creek (7138125)	MA71-08_2006	From Broadway/Route 107, Chelsea/Revere to confluence with Chelsea River, Chelsea/Revere	0.01 sq mi	5
Mill Pond (71031)	MA71031_2006	Winchester	2.0 acres	5
Mystic River (7138150)	MA71-02_2006	Outlet Lower Mystic Lake, Arlington/Medford to Amelia Earhart Dam, Somerville/Everett.	5.0 miles	5
Mystic River (7138150)	MA71-03_2006	Amelia Earhart Dam, Somerville/Everett to confluence with Chelsea River, Chelsea/Charlestown/East Boston (Includes Island End River).	0.50 sq mi	5
Spy Pond (71040)	MA71040_2006	Arlington	98.4 acres	5
Wedge Pond (71045)	MA71045_2006	Winchester	22.9 acres	5
Winn Brook (7138280)	MA71-09_2006	Headwaters near Juniper Road and the Belmont Hill School, Belmont to confluence with Little Pond, Belmont	1.4 miles	5
Winter Pond (71047)	MA71047_2006	Winchester	15.1 acres	5
Boston Harbor: Neponset				
Beaver Brook (7341400)	MA73-19_2006	Headwaters just west of Moose Hill Street through Sawmill Pond to confluence with Massapoag Brook, Sharon.	3.8 miles	5
Beaver Meadow Brook (7341475)	MA73-20_2006	Outlet of Glenn Echo Pond, Stoughton, to the inlet of Bolivar Pond, Canton.	3.6 miles	5
Billings Street/East Street Pond (73065)	MA73065_2006	Sharon	2.1 acres	4c
Bird Pond (73002)	MA73002_2006	Walpole	20.4 acres	3
Blue Hills Reservoir (73004)	MA73004_2006	Quincy	12.2 acres	3
Bolivar Pond (73005)	MA73005_2006	Canton	19.8 acres	5
Bubbling Brook (7341625)	MA73-11_2006	Headwaters at small unnamed pond north of Rt. 109 and Dover/Walpole/Westwood town lines to inlet Pettee Pond, Walpole/Westwood border.	1.3 miles	3
Buckmaster Pond (73006)	MA73006_2006	Westwood	34.3 acres	3
Clark Pond (73008)	MA73008_2006	Walpole	6.7 acres	4c
Cobbs Pond (73009)	MA73009_2006	Walpole	14.2 acres	5
Crackrock Pond (73010)	MA73010_2006	Foxborough	2.7 acres	3

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NAME	SEGMENT ID	DESCRIPTION	SIZE	CATEGORY
East Branch (7341300)	MA73-05_2006	East Branch Neponset River - Outlet of Forge Pond through unnamed pond southwest of Forge Pond and East Branch Pond to confluence with Neponset River, Canton. (locally known as Canton River)	3.2 miles	5
Ellis Pond (73018)	MA73018_2006	Norwood	17.1 acres	4c
Farrington Pond (73040)	MA73040_2006	Stoughton	5.7 acres	4c
Flynns Pond (73019)	MA73019_2006	Medfield	7.5 acres	3
Forge Pond (73020)	MA73020_2006	Canton	8.0 acres	5
Ganawatte Farm Pond (73037)	MA73037_2006	Walpole/Sharon/Foxborough	29.4 acres	5
Germany Brook (7341575)	MA73-15_2006	Headwaters, east of Winter Street, to inlet of Ellis Pond, Norwood.	2.0 miles	5
Glen Echo Pond (73022)	MA73022_2006	Canton/Stoughton	15.8 acres	3
Gulliver Creek (7341025)	MA73-30_2006	From confluence Unquity Brook to confluence Neponset River, Milton. (Note: Unquity Brook culverted, confluence not visible on quad)	0.02 sq mi	4a
Hammer Shop Pond (73023)	MA73023_2006	Sharon	2.2 acres	3
Hawes Brook (7341550)	MA73-16_2006	Outlet of Ellis Pond to confluence with Neponset River, Norwood.	1.1 miles	4a
Jewells Pond (73026)	MA73026_2006	Medfield	3.7 acres	3
Lymans Pond (73021)	MA73021_2006	Westwood	25.1 acres	3
Manns Pond (73028)	MA73028_2006	Sharon	5.7 acres	5
Massapoag Brook (7341375)	MA73-21_2006	Outlet Hammer Shop Pond, Sharon, through Manns Pond, Trowel Shop Pond, and Shephard Pond to the inlet of unnamed pond southwest of Forge Pond, Canton.	4.2 miles	5
Massapoag Lake (73030)	MA73030_2006	Sharon	389 acres	4c
Memorial Pond (73012)	MA73012_2006	Walpole	8.0 acres	5
Mill Brook (7341600)	MA73-12_2006	Source north east of Ledgewood Drive, Dover to inlet of Pettee Pond, Westwood.	3.1 miles	4a
Mill Brook (7341675)	MA73-08_2006	From headwaters north of Hartford Street, Medfield to inlet of Jewells Pond, Medfield.	2.3 miles	5
Mine Brook (7341650)	MA73-09_2006	Outlet of Jewells Pond, Medfield, to the inlet of Turner Pond, Walpole.	3.0 miles	5
Mother Brook (7341180)	MA73-28_2006	Headwaters at the Charles River Diversion, Dedham to confluence with Neponset River, Boston. [Reported as MA72-13 until May 3, 2000]	3.6 miles	5
Neponset Reservoir (73034)	MA73034_2006	Foxborough	311 acres	5
Neponset River (7341000)	MA73-01_2006	Outlet of Neponset Reservoir, Foxborough to confluence with East Branch, Canton.	13.3 miles	5
Neponset River (7341000)	MA73-02_2006	Confluence with East Branch, Canton to confluence with Mother Brook, Boston.	8.4 miles	5
Neponset River (7341000)	MA73-03_2006	Confluence with Mother Brook, Boston to Milton Lower Falls Dam, Milton/Boston.	3.7 miles	5
Neponset River (7341000)	MA73-04_2006	Milton Lower Falls Dam, Milton/Boston to mouth at Dorchester Bay, Boston/Quincy.	0.66 sq mi	5
Pecunit Brook (7341225)	MA73-25_2006	Headwaters east of Carey Circle and west of Pecunit Street, Canton to the confluence with Neponset River, Canton.	1.8 miles	2
Pequid Brook (7341325)	MA73-22_2006	Headwaters east of York Street through Reservoir Pond to the inlet of Forge Pond, Canton.	4.1 miles	5
Pine Tree Brook (7341075)	MA73-29_2006	Outlet of Hillside Pond through Pope's Pond to confluence Neponset River, Milton.	4.6 miles	5
Pinewood Pond (73039)	MA73039_2006	Stoughton	25.2 acres	4c
Plantingfield Brook (7341275)	MA73-23_2006	Headwaters east of Thatcher Street, Westwood, to the confluence with Purgatory Brook, Norwood.	1.9 miles	4c
Ponkapoag Pond (73043)	MA73043_2006	Canton	214 acres	4c
Ponkapog Brook (7341200)	MA73-27_2006	Outlet of Ponkapoag Pond to confluence with Neponset River, Canton.	3.1 miles	4a
Popes Pond (73044)	MA73044_2006	Milton	6.0 acres	5
Purgatory Brook (7341250)	MA73-24_2006	Headwaters east of Farm Lane, Westwood to confluence with Neponset River, Norwood.	5.9 miles	4a
Reservoir Pond (73048)	MA73048_2006	Canton	251 acres	4c
Russell Pond (73003)	MA73003_2006	Milton	8.9 acres	5
School Meadow Brook (7341750)	MA73-06_2006	Outlet of Ganawatte Farm Pond to confluence with Neponset River, Walpole.	1.9 miles	4a
Sprague Pond (73053)	MA73053_2006	Boston/Dedham	7.4 acres	3
Steep Hill Brook (7341500)	MA73-18_2006	Outlet of Pinewood Pond, Stoughton, to the inlet of Bolivar Pond, Canton.	0.89 miles	2
Town Pond (73056)	MA73056_2006	Stoughton	8.1 acres	4c
Traphole Brook (7341525)	MA73-17_2006	Headwaters west of Everett Street, Sharon, to confluence with Neponset River, Sharon/Norwood.	3.9 miles	4a

Appendix 4 Waterbody Segments and Integrated List Categories by Major Watershed

NAME	SEGMENT ID	DESCRIPTION	SIZE	CATEGORY
Tubwreck Brook (7341700)	MA73-07_2006	Headwaters - small unnamed pond southeast of Powissett Street, Dover to confluence with Mill Brook just southwest of Dover/Medfield border.	1.6 miles	3
Turner Pond (73058)	MA73058_2006	Walpole	17.6 acres	4c
Turners Pond (73059)	MA73059_2006	Milton	10.5 acres	5
Unnamed Tributary (7341430)	MA73-31_2006	Outlet of Massapoag Lake to inlet of Hammer Shop Pond, Sharon.	0.24 miles	4a
Unnamed Tributary (7341505)	MA73-32_2006	From the outlet of Town Pond to the confluence with Steep Hill Brook, Stoughton.	1.0 miles	5
Unnamed Tributary (7341530)	MA73-33_2006	Locally Known as "Meadow Brook" - From where the underground/culverted stream emerges east of Pleasant Street, Norwood to confluence with Neponset River, Norwood.	0.66 miles	5
Unnamed Tributary (7341580)	MA73-14_2006	Outlet Willet Pond, Walpole, to inlet Ellis Pond, Norwood.	0.35 miles	3
Unnamed Tributary (7341595)	MA73-13_2006	Outlet Pettee Pond Walpole/Westwood to inlet Willet Pond, Walpole/Westwood.	0.02 miles	4a
Unnamed Tributary (7341645)	MA73-10_2006	Outlet Turner Pond to confluence with Neponset River, Walpole.	0.38 miles	3
unnamed tributary (7341710)	MA73-34_2006	Outlet Clark Pond, Walpole to confluence with Neponset River, Walpole (locally considered part of Spring Brook)	1.2 miles	2
Unquity Brook (7341050)	MA73-26_2006	Isolated (urban): Headwaters east of Sias Lane/west of Randolph Avenue, Milton to confluence with Gulliver Creek, Milton (Note: Confluence not visible on quad, brook culverted underground east of Otis Street/west of Governor Belcher Lane, Milton)	1.7 miles	5
Willet Pond (73062)	MA73062_2006	Walpole/Westwood/Norwood	206 acres	4b
Woods Pond (73055)	MA73055_2006	Stoughton	14.1 acres	4c
Boston Harbor: Weymouth & Weir				
Accord Pond (74030)	MA74030_2006	Hingham/Norwell/Rockland (formerly reported as MA94002)	103 acres	2
Cochato River (7442400)	MA74-06_2006	Outlet Lake Holbrook, Holbrook to confluence with Farm and Monatiquot rivers, Braintree. (segment also includes part of Glovers Brook and Mary Lee Brook and all of an unnamed tributary outletting Lake Holbrook)	4.2 miles	5
Crooked Meadow River (7442800)	MA74-01_2006	Outlet Cushing Pond to confluence with Weir River, Hingham.	1.0 miles	5
Farm River (7442225)	MA74-07_2006	From confluence with Blue Hill River and unnamed outlet of Great Pond to confluence with Cochato River forming headwaters of Monatiquot River, Braintree.	3.0 miles	3
Foundry Pond (74011)	MA74011_2006	Hingham	6.1 acres	5
Furnace Brook (7442025)	MA74-10_2006	From headwaters north of Blue Hills Reservoir to confluence with Blacks Creek, Quincy.	4.2 miles	5
Lake Holbrook (74013)	MA74013_2006	Holbrook	31.2 acres	5
Hoosicwhisick Pond (74015)	MA74015_2006	Milton	23.1 acres	3
Ice House Pond (74028)	MA74028_2006	Randolph	0.57 acres	5
Mill River (7442625)	MA74-04_2006	Headwaters, west of Route 18 and south of Randolph Street to inlet Whitmans Pond, Weymouth.	3.4 miles	5
Monatiquot River (7442200)	MA74-08_2006	Headwaters at confluence of Cochato and Farm rivers to confluence with Weymouth Fore River at Route 53, Braintree.	4.9 miles	5
Old Quincy Reservoir (74017)	MA74017_2006	Braintree	26.7 acres	3
Old Swamp River (7442650)	MA74-03_2006	Headwaters just west of Pleasant Street and north of Liberty Street, Rockland to inlet Whitmans Pond, Weymouth.	5.2 miles	5
Sunset Lake (74020)	MA74020_2006	Braintree	57.7 acres	3
Sylvan Lake (74021)	MA74021_2006	Holbrook	5.9 acres	5
Town Brook (7442100)	MA74-09_2006	Outlet Old Quincy Reservoir, Braintree to confluence with Town River north of Route 3A, Quincy. (Includes "The Canal")	3.5 miles	5
Town River Bay (74901)	MA74-15_2006	From the headwaters at the Route 3A bridge to the mouth at Weymouth Fore River between Shipyard and Germantown Points, Quincy.	0.47 sq mi	5
Trout Brook (7442550)	MA74-12_2006	Headwaters southwest of South Street, Holbrook to inlet Lake Holbrook, Holbrook.	1.2 miles	3
Weir River (7442675)	MA74-02_2006	Headwaters at confluence of Crooked Meadow River and Fulling Mill Brook to Rockland Street, Hingham.	3.1 miles	5

APPENDIX B

Endangered Species List

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
STOUGHTON	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1923
STOUGHTON	Fish	Notropis bifrenatus	Bridle Shiner	SC		1951
STOUGHTON	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2004
STOUGHTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1994
STOUGHTON	Vascular Plant	Potamogeton confervoides	Algae-like Pondweed	T		1972
STOUGHTON	Vascular Plant	Panicum philadelphicum	Philadelphia Panic-grass	SC		1931
STOUGHTON	Vascular Plant	Cyperus houghtonii	Houghton's Flatsedge	E		1928
STOUGHTON	Vascular Plant	Carex polymorpha	Variable Sedge	E		1930
STOUGHTON	Vascular Plant	Rotala ramosior	Toothcup	E		Historic

In accordance with Appendix VII of the NPDES Remediation General Permit, it was determined that the four species of concern (shortnose sturgeon, dwarf wedge mussel, bog turtle and the northern redbelly cooter are not present at the facility pursuant to the Natural Heritage & Endangered Species Program provided by the Massachusetts Division of Fisheries and Wildlife.

<http://www.mass.gov/dfwele/dfw/nhesp/towns.htm#stoughton>

APPENDIX C

Appendix V: Notice of Intent (NOI), Notice of Change (NOC), and Notice of Termination (NOT) Suggested Forms & Instructions

I. Suggested Notice of Intent (NOI) Form

In order to be covered by the remediation general permit (RGP), applicants must submit a written Notice of Intent (NOI) to EPA Region I and the appropriate state agency. **All parties meeting the definition of “operator” must fill out, sign, and submit separate NOIs.**

The “operator” is defined in Part I.B.1. as the person¹ who has operational control over plans and specifications, or the person who has day-to-day supervision and control of activities occurring at the site. For purposes of this permit, the operator is either:

- i. The owner² (e.g., title holder, developer, or easement holder of the property) if that entity is performing all work related to complying with this permit; **or**
- ii. Both the owner² (e.g., title holder, developer, or easement holder of the property) and contractor(s) if a contractor(s) has been hired to perform work related to complying with this permit.

This means that each party meeting the definition of operator should apply for coverage under the RGP if it has operational control over either the project site plans and specifications, including the ability to make modifications to those plans and specifications (e.g., the property owner), **or** has day-to-day operational control of those activities at a project which are necessary to ensure compliance with permit conditions (e.g., the contractor). Where a party’s activity is part of a larger common plan (e.g., for the development or sale of the property), that party is only responsible for applying for the portions of the project for which it meets the definition of “operator.” In many instances, there may be more than one party at a site performing tasks related to “operational control” and hence, more than one operator must submit an NOI. Depending on the site and the relationship between the parties (e.g., owner, contractor, etc.), there could be either a single party acting as site operator and consequently responsible for obtaining permit coverage, or there could be two or more operators all needing permit coverage.

The following are three general “**operator**” scenarios (variations on any of these three are possible, especially as the number of owners and contractors increases):

- ▶ “*Owner*” as “*Operator*” - *sole permittee*. The property owner designs the structures and control systems for the site, develops and implements the BMPP, and serves as general contractor (or has an on-site representative with full authority to direct day-to-day operations). Under the definition of operator, in this case, the “Owner” would be considered the “operator” and therefore the only party that needs permit coverage. Everyone else working on the site may be considered subcontractors and do not need to apply for permit coverage.

¹ Defined in 40 CFR 122.2.

²For purposes of this permit, the “owner” of a property is the person, as defined by 40 CFR 122.2, holding the title, deed, or legal document to the regulated property, facility, or activity, including a party working under an easement on the property.

- ▶ *“Contractor” as “Operator” - sole permittee.* The property owner hires a company (e.g., a contractor) to design the project and oversee all aspects, including preparation and implementation of the BMPP and compliance with the permit (e.g., a “turnkey” project). Here, the contractor would likely be the only party needing a permit. It is under this scenario that an individual having a personal residence built for his own use (e.g., not those to be sold for profit or used as rental property) would not be considered an operator. Similarly, EPA expects that property owners hiring a contractor or consultant to perform groundwater remediation work (e.g., due to a leaking fuel oil tank) would come under this type of scenario. EPA believes that the contractor, being a professional in the industry, should be the responsible entity rather than the individual. The contractor is better equipped to meet the requirements of both applying for permit coverage and developing and properly implementing the plans needed to comply with the permit. However, property owners would also meet the definition of “operator” and require permit coverage in instances where they perform any of the required tasks on their personal properties.

- ▶ *“Owner” and “Contractor” as “Operators” - co-permittees.* The owner retains control over any changes to site plans, BMPPs, or wastewater conveyance or control designs, but the contractor is responsible for conducting and overseeing the actual activities (e.g., excavation, installation and operation of treatment train, etc.) and daily implementation of BMPP and other permit conditions. In this case, **both** parties need to apply for coverage.

Generally, a person would not be considered an “operator,” and subsequently would not need permit coverage, if: 1) that person is a subcontractor hired by, and under the supervision of, the owner or a general contractor (e.g., if the contractor directs the subcontractor’s activities on-site, it is probably not an operator); or 2) the person’s activities would otherwise result in the need for coverage under the RGP but another operator has legally assumed responsibility for the impacts of project activities.

A. Instructions for the Suggested Notice of Intent (NOI) - At a minimum, the Notice of Intent must include the following for each individual facility or site. Additional information may be attached as needed.

1. General facility/site information.

- a) Provide the **facility/site** name, mailing address, and telephone and fax numbers. Provide the facility SIC code(s). Provide the site location, including longitude and latitude.
- b) Provide the property **owner’s** name, address, email address, telephone and fax numbers, if different from the site information. Indicate whether the owner is a Federal, State, Tribal, private, or other entity.
- c) Provide the site **operator’s** (e.g., contractor’s) name, mailing address, telephone and fax numbers, and email address if different from the owner’s information.
- d) For the site for which the application is being submitted, indicate whether:
 - 1) a prior NPDES permit exclusion has been granted for the discharge (if so, provide the tracking number of the exclusion letter);

- 2) a prior NPDES application (Form 1 & 2C) has ever been filed for the discharge (if so, provide the tracking number and date that the application was submitted to EPA);
 - 3) the discharge is a “new discharge” as defined by 40 CFR 122.2; and
 - 4) for sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting.
- e) Indicate whether there is any ongoing state permitting, licensing, or other action regarding the facility or site which is generating the discharge. If “yes,” provide any site identification number assigned by the state of NH or MA, any permit or license number assigned, and the state agency contact information (e.g. name, location, telephone no.).
- f) Indicate whether or not the facility is covered by other EPA permits including: the multi-sector storm water general permit; the Phase I or II Construction Storm Water General Permit; an individual NPDES permit; or, any other water quality-related individual or general permit. If so, provide permit tracking number(s).

2. Discharge information.

- a) Describe the discharge activities to be covered by the permit. Attach additional sheets as needed.
- b) Provide the following information about each discharge:
- 1) the number of discharge points;
 - 2) the **maximum** and **average flow rate** of the discharge in cubic feet per second. For the average flow magnitude, include the units and appropriate notation if this value is a calculated design value or estimate if technical/design information is not available;
 - 3) the latitude and longitude of each discharge with an accuracy of 100 feet (see EPA’s siting tool at: http://www.epa.gov/tri/report/siting_tool/);
 - 4) the total volume of potential discharge (gal), only if hydrostatic testing;
 - 5) indication whether the discharge(s) is intermittent or seasonal and if ongoing.
- c) Provide the expected start and end dates of discharge (month/day/year)
- d) Attach a line drawing or flow schematic showing water flow through the facility including:
- 1) sources of intake water;
 - 2) contributing flow from the operation;
 - 3) treatment units; and
 - 4) discharge points and receiving waters(s).

3. Contaminant information. In order to complete section I.3. of the NOI, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. The applicant may use historical data as a substitute for the new sample if the data was collected no more than 2 years prior to the effective date of the permit and if collected pursuant to: i. Massachusetts’ regulations 310 CMR 40.0000, the Massachusetts Contingency Plan (“Chapter 21E”); ii. New Hampshire’s Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, and was analyzed with the test methods required by this permit. Otherwise, a new sample shall be taken and analyzed.

- a) Based on the analysis of the sample(s) of the untreated influent, the applicant must indicate which of the sub-categories (listed in Table V of Part I.C of the permit) that the potential discharge falls within.
- b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge.

Based on the required sampling and analysis, the applicant must fill in the table, or provide a narrative description, with the following additional information for each chemical that is **believed present**:

- 1) the number of samples taken (minimum of one sample);
- 2) the type of sample (e.g. grab, composite, etc.);
- 3) the analytical method used, including the method number;
- 4) the minimum level (ML) of the method used (based on Appendix VI);
- 5) the maximum daily amount (concentration, ug/l, and mass, kg) of each pollutant, based on the sampling data (see Appendix VIII instructions for sample mass calculations); and
- 6) the average daily amount (concentration and mass) of each pollutant, based on the sampling data.

If the results of the required sampling indicate that pollutants exist in addition to those listed in Appendix III of the RGP of the permit, the applicant must also describe those contaminants on the NOI in boxes in section I.3.b) on the line marked “Other,” or using additional sheets as needed. Subsequently, EPA will decide if the RGP can apply or if an individual permit is necessary.

c) Determination of Reasonable Potential and Allowable Dilution for Discharges of Metals:
If any *metals* are believed present in the potential discharge to freshwater³, the applicant must follow the 2 step calculation procedures described below to determine the reasonable potential for exceedance of water quality standards and dilution factor for each metal.

Step 1: Initial Evaluation

- 1) The applicant must evaluate all metals believed present in the discharge subject to this permit, including “naturally occurring” metals such as dissolved and/or total Iron. Applicants must enter the highest detected concentration of the metal at zero dilution in the “Maximum value” column of the NOI.
- 2) Based on the maximum concentration of each metal, the applicant must perform an initial evaluation assuming zero dilution in the receiving water. The applicant must compare the metals concentrations in the untreated (intake) waters to the limits contained in Appendix III.
 - i. If potential discharges (untreated influent) with metals contain concentrations above the concentration limits listed in Appendix III , applicant must proceed to step 2.

³Dilution factors may be available for discharges to saline waters but only with approval of the flow modeling information from the State prior to the submission of the NOI.

ii. If potential discharges (untreated influent) with metals contain concentrations below the concentrations listed in Appendix III, the applicant may skip step 2 and those metals will **not** be subject to permit limitations or monitoring requirements.

Step 2: Calculation of Dilution Factor

1) **For applicants in NH:** If a metal concentration in a potential discharge (untreated influent) to **freshwater**³ exceeds the limits in Appendix III with zero dilution, the applicant shall evaluate the potential concentration considering a dilution factor (DF) using the formula below. **For sites in New Hampshire, the applicant must contact NH DES to determine the 7Q10 and dilution factor.**

$$DF = [(Qd + Qs)/Qd] \times 0.9$$

Where:

DF	= Dilution Factor
Qd	= Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = .00223 cfs)
Qs	= Receiving water 7Q10 flow, in cfs, where,
7Q10	= The annual minimum flow for 7 consecutive days with a recurrence interval of 10 years
0.9	= Allowance for reserving 10% of the assets in the receiving stream as per Chapter ENV-Ws 1700, Surface Water Quality Regulations

i. Using the DF calculated from the formula above, the applicant must refer to the corresponding DF range column in Appendix IV. The applicant then compares the maximum concentration of the metal entered on the NOI to the corresponding total recoverable metals limits listed in Appendix IV.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in the potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

ii. In either case, the applicant must submit the results of this calculation as part of the NOI. EPA and NH DES will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

2) **For applicants in MA:** If a metal concentration in a in a potential discharge (untreated influent) to **freshwater**³ exceeds the limits in Appendix III with zero dilution, the applicant must evaluate the potential concentration considering a dilution factor (DF) using the formula below.

$$DF = (Qd + Qs)/Qd$$

Where: **DF** = **Dilution Factor**
Qd = **Maximum flow rate of the discharge in cubic feet per second (cfs)**
(1.0 gpm = .00223 cfs)
Qs = **Receiving water 7Q10 flow (cfs) where,**
7Q10 = **The minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years**

i. The applicant may estimate the 7Q10 for a receiving water by using available information such as nearby USGS stream gauging stations directly or by application of certain “flow factors,” using historic streamflow publication information, calculations based on drainage area, information from state water quality offices, or other means. In many cases the states of MA have calculated 7Q10 information using “flow factors” for a number of streams in the state. The source of the low flow value(s) used by the applicant must be included on NOI application form. Flow data can also be obtained from web applications such as STREAMSTATS located at: <http://ma.water.usgs.gov/streamstats/>.

ii. Using the DF calculated from the formula above, the applicant must refer to the corresponding DF range column in Appendix IV. The applicant then compares the maximum concentration of each metal entered on the NOI to the corresponding total recoverable metals limit listed in Appendix IV.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in a potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

iii. The applicant must submit the results of this calculation as part of the NOI. EPA (and MA DEP where the discharge not covered by 310 CMR 40.0000) will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

4. Treatment system information.

- a) Describe the treatment train for each discharge and attach a schematic of the proposed or existing treatment system.
- b) Identify each major treatment unit (e.g. frac tanks, filters, air stripper, liquid phase/vapor phase activated carbon, oil/water separators, etc.) by checking all that apply and describing any additional equipment not listed. Provide a written description of how the system train will be set up. Attach additional sheets as needed.

- c) Provide the proposed **average** and **maximum flow** rates (in gallons per minute, gpm) for the discharge and the **design flow** rates (in gpm) of the treatment system. Clearly identify the component of the treatment with the most limited flow, i.e., the part of the treatment train that establishes the **design flow**.
- d) Describe any chemical additives being used, or planned to be used, and attach MSDS sheets for each. EPA may request further information regarding the chemical composition of the additive, potential toxic effects, or other information to insure that approval of the use of the additive will not cause or contribute to a violation of State water quality standards. Approval of coverage under the RGP will constitute approval of the use of the chemical additive(s). If coverage of the discharge under the RGP has already been granted and the use of a chemical additive becomes necessary, the permittee must submit a Notice of Change (NOC).

5. Receiving surface water(s) information.

- a) Identify the discharge pathway by checking whether it is discharged: directly to the receiving water, within the facility (e.g., through a sewer drain), to a storm drain, to a river or brook, to a wetland, or other receiving body.
- b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters into which discharge will occur.
- c) Provide a detailed map(s) indicating the location of the site and outfall to the receiving water:
- 1) For multiple discharges, the discharges should be numbered sequentially.
 - 2) In the case of indirect dischargers (to municipal storm sewer, etc) the map(s) must be sufficient to indicate the location of the discharge to the indirect conveyance and the discharge to the state classified 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 and the basin;
- e) Specify the reported seven day-ten year low flow (7Q10) of the receiving water (see Section I.A.3)c. above). In New Hampshire, the 7Q10 must be provided by to the applicant by the New Hampshire Department of Environmental Services.
- f) Indicate whether the receiving water is a listed 303(d) water quality impaired or limited water and if so, for which pollutants (see Section VII.H. of the Fact Sheet for additional information). Also, indicate if there is a TMDL for any of the listed pollutants. For MA, the list of waters can be found at: <http://www.mass.gov/dep/brp/wm/tmdls.htm> and for NH: <http://www.epa.gov/ne/eco/tmdl/impairedh2o.html>. For more information, contact the states at: New Hampshire Department of Environmental Services, Watershed Management Bureau at 603-271-3503 or the Massachusetts Department of Environmental Protection at 508-767-2796 or 508-767-2873;

6. Consultation with Federal Services - As required in Part I.A.4 and Appendix VII the operator of a site/facility must ensure that the potential discharge will not affect adversely endangered species, designated critical habitat, or essential fish habitat, or national historic places that are in proximity to the potential discharge. If the potential discharge is to certain water bodies, the applicant must also submit a formal certification with the NOI that indicates the consultation, with the U.S. Fish and Wildlife Service and National Marine Fisheries Service (the Services), resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat. Facilities should begin the

consultation as early in the process as possible.

- a) Indicate whether any listed threatened or endangered species, designated critical habitat, or essential fish habitat, are in proximity to the discharge to be covered by this permit and whether any consultation with the Services is complete or underway.
- b) Indicate whether or not there are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge (see <http://www.cr.nps.gov/nr/research/nris.htm>), and whether any state or tribal historic preservation officer (SHPO or THPO) was consulted in such a determination (for Massachusetts sites only).

7. Supplemental information. Applicants should provide any supplemental information needed to meet the requirements of the permit, including, any analytical data used to support the application, and any certification(s) required.

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.

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site :		Facility/site address:		
Location of facility/site : longitude: _____ latitude: _____	Facility SIC code(s):	Street:		
b) Name of facility/site owner :		Town:		
Email address of owner:		State:	Zip:	County:
Telephone no. of facility/site owner :				
Fax no. of facility/site owner :		Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. other, if so, describe:		
Address of owner (if different from site):				
Street:				
Town:	State:	Zip:	County:	
c) Legal name of operator :	Operator telephone no:			
	Operator fax no.:		Operator email:	
Operator contact name and title:				

Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No___, if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No___, if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes___ No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes___ No___			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No___ If "yes," 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 storm water general permit? Y___ N___, if Y, number: 2. phase I or II construction storm water general permit? Y___ N___, if Y, number: 3. individual NPDES permit? Y___ N___, if Y, number: 4. any other water quality related permit? Y___ N___, if Y, number:	

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage:		
b) Provide the following information about each discharge:	1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow _____ Average flow _____ Is maximum flow a design value ? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1:long.____ lat.____; pt.2: long.____ lat.____; pt.3: long.____ lat.____; pt.4:long.____ lat.____; pt.5: long.____ lat.____; pt.6:long.____ lat.____; pt.7: long.____ lat.____; pt.8:long.____ lat.____; etc.		

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent _____ or seasonal _____? Is discharge ongoing Yes _____ No _____?
c) Expected dates of discharge (mm/dd/yy): start _____ end _____	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts’ regulations 310 CMR 40.0000, the Massachusetts Contingency Plan (“Chapter 21E”); ii. New Hampshire’s Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids										
2. Total Residual Chlorine										
3. Total Petroleum Hydrocarbons										
4. Cyanide										
5. Benzene										
6. Toluene										
7. Ethylbenzene										
8. (m,p,o) Xylenes										
9. Total BTEX ⁴										

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)										
11. Methyl-tert-Butyl Ether (MtBE)										
12. tert-Butyl Alcohol (TBA)										
13. tert-Amyl Methyl Ether (TAME)										
14. Naphthalene										
15. Carbon Tetra-chloride										
16. 1,4 Dichlorobenzene										
17. 1,2 Dichlorobenzene										
18. 1,3 Dichlorobenzene										
19. 1,1 Dichloroethane										
20. 1,2 Dichloroethane										
21. 1,1 Dichloroethylene										
22. cis-1,2 Dichloro-ethylene										
23. Dichloromethane (Methylene Chloride)										
24. Tetrachloroethylene										

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane										
26. 1,1,2 Trichloroethane										
27. Trichloroethylene										
28. Vinyl Chloride										
29. Acetone										
30. 1,4 Dioxane										
31. Total Phenols										
32. Pentachlorophenol										
33. Total Phthalates ⁵ (Phthalate esthers)										
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]										
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene										
b. Benzo(a) Pyrene										
c. Benzo(b)Fluoranthene										
d. Benzo(k) Fluoranthene										
e. Chrysene										

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene										
g. Indeno(1,2,3-cd) Pyrene										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene										
i. Acenaphthylene										
j. Anthracene										
k. Benzo(ghi) Perylene										
l. Fluoranthene										
m. Fluorene										
n. Naphthalene-										
o. Phenanthrene										
p. Pyrene										
37. Total Polychlorinated Biphenyls (PCBs)										
38. Antimony										
39. Arsenic										
40. Cadmium										
41. Chromium III										
42. Chromium VI										

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper										
44. Lead										
45. Mercury										
46. Nickel										
47. Selenium										
48. Silver										
49. Zinc										
50. Iron										
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ___ N ___</p>	<p>If yes, which metals?</p>
<p><i>Step 2:</i> For any metals which have reasonable potential to 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? Metals: _____ DF: _____</p>	<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)? Y ___ N ___ If “Yes,” list which metals:</p>

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	Dechlorination	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 _____ Maximum flow rate of treatment system _____ Design flow rate of treatment system _____						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):						

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

a) Identify the discharge pathway:	Direct _____	Within facility__	Storm drain _____	River/brook _____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:						

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

1. For multiple discharges, number the discharges sequentially.

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

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

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

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

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ___ No ___ If yes, for which pollutant(s)?

Is there a TMDL? Yes ___ No ___ If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ___ No ___

Has any consultation with the federal services been completed? No ___ or is consultation underway? No ___

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a “no jeopardy” opinion? ___ or written concurrence ___ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?

Yes ___ No ___ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ___ No ___

7. Supplemental information. :

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

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

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

Facility/Site Name:

Operator signature:

Title:

Date:

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

US Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU),
1 Congress Street, Suite 1100
Boston, MA 02114-2023

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 phone number or address listed in Section I.B. below.

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 (MA DEP) 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.

APPENDIX D

March 16, 2007 10:51:04AM

Client: Sovereign Consulting (Mansfield) / SHELL (13859]
905B South Main Street, Suite 202
Mansfield, MA 02048
Attn: Eric Simpson

Work Order: NQC1199
Project Name: SC - 1580 Stoughton - RGP Sampling
Project Nbr: SAP 100074 / EQ 808
P/O Nbr:
Date Received: 03/09/07

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
JBMW-1	NQC1199-01	03/07/07 17:00
Trip Blank	NQC1199-02	03/07/07 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times with the following exceptions. The residual chlorine has a holding time which is immediate and hexavalent chromium which was received outside of holding time.

All no responses from the attached "MCP Response Action Analytical Report Certification Form" are addressed below.

E. The method 625 blank spike/ blank spike duplicate (LCS/LCSD) RPDs for several analytes in batch 7031808 were outside QC limits. The recoveries were within QC limits; therefore the data was accepted without further analysis.

The method 624 blank spike and blank spike duplicate (LCS/LCSD) recoveries for acrolein in batch 7032137 were outside QC limits. The recoveries were elevated and the associated samples were non-detect at the reporting limit; therefore the data was accepted without further analysis.

F. The full MCP CAM analyte lists were not reported. Only those analytes requested on the chain of custody by the client were reported.

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

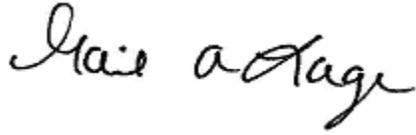
Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:

Client Sovereign Consulting (Mansfield) / SHELL (13859]
905B South Main Street, Suite 202
Mansfield, MA 02048
Attn Eric Simpson

Work Order: NQC1199
Project Name: SC - 1580 Stoughton - RGP Sampling
Project Number: SAP 100074 / EQ 808
Received: 03/09/07 07:50



Gail A Lage

Program Manager - National Accounts

Client Sovereign Consulting (Mansfield) / SHELL (13859]
 905B South Main Street, Suite 202
 Mansfield, MA 02048
 Attn Eric Simpson

Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch	
Sample ID: NQC1199-01 (JBMW-1 - Water) Sampled: 03/07/07 17:00									
General Chemistry Parameters									
Cyanide	ND		mg/L	0.0050	1	03/14/07 11:30	EPA 335.3	7032188	
Residual Chlorine	ND	HTI	mg/L	0.0200	1	03/12/07 10:00	EPA 330.5	7031493	
Total Suspended Solids	20.4		mg/L	2.00	1	03/09/07 19:25	EPA 160.2	7031765	
Chromium (VI)	ND	H3	mg/L	0.00400	0.0100	1	03/09/07 23:30	EPA 218.4	7031834
Silica Gel Treated HEM (SGT-HEM)	ND		mg/L	5.26	1	03/14/07 14:41	EPA 1664A	7032430	

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQC1199-01 (JBMW-1 - Water) - cont. Sampled: 03/07/07 17:00									
Total Metals by EPA Method 200.7									
Antimony	ND		mg/L	0.00800	0.0100	1	03/12/07 16:48	EPA 200.7	7032037
Arsenic	ND		mg/L	0.00450	0.0100	1	03/12/07 16:48	EPA 200.7	7032037
Cadmium	ND		mg/L	0.000800	0.00100	1	03/12/07 16:48	EPA 200.7	7032037
Chromium	ND		mg/L	0.00250	0.00500	1	03/12/07 16:48	EPA 200.7	7032037
Copper	ND		mg/L	0.00300	0.0100	1	03/12/07 16:48	EPA 200.7	7032037
Iron	9.60		mg/L	0.0430	0.0500	1	03/12/07 16:48	EPA 200.7	7032037
Lead	ND		mg/L	0.00300	0.00500	1	03/12/07 16:48	EPA 200.7	7032037
Nickel	ND		mg/L	0.00300	0.0100	1	03/12/07 16:48	EPA 200.7	7032037
Selenium	ND		mg/L	0.00500	0.0100	1	03/12/07 16:48	EPA 200.7	7032037
Silver	ND		mg/L	0.00300	0.00500	1	03/12/07 16:48	EPA 200.7	7032037
Zinc	ND		mg/L	0.0200	0.0500	1	03/12/07 16:48	EPA 200.7	7032037
Mercury by EPA 245.1									
Mercury	ND		mg/L	0.000100	0.000200	1	03/13/07 12:05	EPA 245.1	7032065

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQC1199-01 (JBMW-1 - Water) - cont. Sampled: 03/07/07 17:00								
EDB and DBCP by EPA Method 504.1								
1,2-Dibromoethane (EDB)	12.97		ug/L	0.3784	20	03/14/07 15:31	EPA 504.1	7031892
<i>Surr: 1,3-Dichlorobenzene (52-170%)</i>	*	Z3				03/14/07 15:31	EPA 504.1	7031892
Organochlorine Pesticides and/or PCBs by EPA Method 608								
PCB-1016	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1221	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1232	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1242	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1248	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1254	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1260	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1262	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
PCB-1268	ND		ug/L	0.500	1	03/11/07 06:30	EPA 608	7031814
<i>Surr: Tetrachloro-meta-xylene (44-131%)</i>	71 %					03/11/07 06:30	EPA 608	7031814
<i>Surr: Decachlorobiphenyl (24-110%)</i>	46 %					03/11/07 06:30	EPA 608	7031814
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)								
Acenaphthene	15.0	R1	ug/L	1.89	2	03/14/07 02:27	EPA 610	7031811
Acenaphthylene	103		ug/L	47.2	10	03/14/07 02:55	EPA 610	7031811
Anthracene	ND		ug/L	0.943	1	03/13/07 01:23	EPA 610	7031811
Benzo (a) anthracene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
Benzo (a) pyrene	ND		ug/L	0.0943	1	03/13/07 01:23	EPA 610	7031811
Benzo (b) fluoranthene	ND		ug/L	0.0943	1	03/13/07 01:23	EPA 610	7031811
Benzo (g,h,i) perylene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
Benzo (k) fluoranthene	ND		ug/L	0.132	1	03/13/07 01:23	EPA 610	7031811
Chrysene	ND		ug/L	0.0943	1	03/13/07 01:23	EPA 610	7031811
Dibenz (a,h) anthracene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
Fluoranthene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
Fluorene	ND		ug/L	0.472	1	03/13/07 01:23	EPA 610	7031811
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
Naphthalene	112		ug/L	9.43	10	03/14/07 02:55	EPA 610	7031811
Phenanthrene	10.0	R1	ug/L	0.472	1	03/13/07 01:23	EPA 610	7031811
Pyrene	ND		ug/L	0.189	1	03/13/07 01:23	EPA 610	7031811
<i>Surr: p-Terphenyl (55-122%)</i>	68 %					03/13/07 01:23	EPA 610	7031811
Purgeable Organic Compounds by EPA Method 624								
Acetone	160		ug/L	50.0	1	03/13/07 15:29	EPA 624	7032137
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Benzene	5830		ug/L	50.0	50	03/14/07 09:01	EPA 624	7031556
Carbon Tetrachloride	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,2-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,4-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,3-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,2-Dichloroethane	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,1-Dichloroethane	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137

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Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQC1199-01 (JBMW-1 - Water) - cont. Sampled: 03/07/07 17:00								
Purgeable Organic Compounds by EPA Method 624 - cont.								
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,1-Dichloroethene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,4-Dioxane	ND		ug/L	100	1	03/13/07 15:29	EPA 624	7032137
Ethylbenzene	1810		ug/L	50.0	50	03/14/07 09:01	EPA 624	7031556
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Methylene Chloride	ND		ug/L	5.00	1	03/13/07 15:29	EPA 624	7032137
Naphthalene	1540		ug/L	250	50	03/14/07 09:01	EPA 624	7031556
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	03/13/07 15:29	EPA 624	7032137
Tetrachloroethene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Toluene	15200		ug/L	100	100	03/14/07 10:23	EPA 624	7031556
1,1,2-Trichloroethane	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
1,1,1-Trichloroethane	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Trichloroethene	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Vinyl chloride	ND		ug/L	1.00	1	03/13/07 15:29	EPA 624	7032137
Xylenes, total	9470		ug/L	100	50	03/14/07 09:01	EPA 624	7031556
<i>Surr: 1,2-Dichloroethane-d4 (62-142%)</i>	<i>65 %</i>					<i>03/13/07 15:29</i>	<i>EPA 624</i>	<i>7032137</i>
<i>Surr: 1,2-Dichloroethane-d4 (62-142%)</i>	<i>88 %</i>					<i>03/14/07 09:01</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: 1,2-Dichloroethane-d4 (62-142%)</i>	<i>89 %</i>					<i>03/14/07 10:23</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: Dibromofluoromethane (78-123%)</i>	<i>88 %</i>					<i>03/13/07 15:29</i>	<i>EPA 624</i>	<i>7032137</i>
<i>Surr: Dibromofluoromethane (78-123%)</i>	<i>93 %</i>					<i>03/14/07 09:01</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: Dibromofluoromethane (78-123%)</i>	<i>91 %</i>					<i>03/14/07 10:23</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: Toluene-d8 (79-120%)</i>	<i>83 %</i>					<i>03/13/07 15:29</i>	<i>EPA 624</i>	<i>7032137</i>
<i>Surr: Toluene-d8 (79-120%)</i>	<i>93 %</i>					<i>03/14/07 09:01</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: Toluene-d8 (79-120%)</i>	<i>93 %</i>					<i>03/14/07 10:23</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: 4-Bromofluorobenzene (75-133%)</i>	<i>103 %</i>					<i>03/13/07 15:29</i>	<i>EPA 624</i>	<i>7032137</i>
<i>Surr: 4-Bromofluorobenzene (75-133%)</i>	<i>90 %</i>					<i>03/14/07 09:01</i>	<i>EPA 624</i>	<i>7031556</i>
<i>Surr: 4-Bromofluorobenzene (75-133%)</i>	<i>89 %</i>					<i>03/14/07 10:23</i>	<i>EPA 624</i>	<i>7031556</i>
Acid and Base/Neutral Extractables by EPA Method 625								
Butyl benzyl phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
4-Chloro-3-methylphenol	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
2-Chlorophenol	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
Di-n-butyl phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
2,4-Dichlorophenol	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
Diethyl phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
2,4-Dimethylphenol	19.5		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
Dimethyl phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
4,6-Dinitro-2-methylphenol	ND		ug/L	23.6	1	03/15/07 12:49	EPA 625	7031808
2,4-Dinitrophenol	ND		ug/L	23.6	1	03/15/07 12:49	EPA 625	7031808
Di-n-octyl phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
Bis(2-ethylhexyl)phthalate	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
2-Nitrophenol	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808
4-Nitrophenol	ND		ug/L	23.6	1	03/15/07 12:49	EPA 625	7031808
Pentachlorophenol	ND		ug/L	23.6	1	03/15/07 12:49	EPA 625	7031808
2,4,6-Trichlorophenol	ND		ug/L	9.43	1	03/15/07 12:49	EPA 625	7031808

Client Sovereign Consulting (Mansfield) / SHELL (13859)
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 Attn Eric Simpson

Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQC1199-01 (JBMW-1 - Water) - cont. Sampled: 03/07/07 17:00								
Acid and Base/Neutral Extractables by EPA Method 625 - cont.								
Surr: Terphenyl-d14 (32-151%)	107 %					03/15/07 12:49	EPA 625	7031808
Surr: 2,4,6-Tribromophenol (26-148%)	113 %					03/15/07 12:49	EPA 625	7031808
Surr: Phenol-d5 (10-94%)	51 %					03/15/07 12:49	EPA 625	7031808
Surr: 2-Fluorobiphenyl (23-130%)	85 %					03/15/07 12:49	EPA 625	7031808
Surr: 2-Fluorophenol (10-97%)	72 %					03/15/07 12:49	EPA 625	7031808
Surr: Nitrobenzene-d5 (38-136%)	79 %					03/15/07 12:49	EPA 625	7031808
Chlorinated Herbicides by EPA Method 8151A								
Pentachlorophenol	ND		ug/L	0.0952	1	03/12/07 23:02	8151A	7031864
Surr: Dichloroacetic Acid (32-155%)	51 %					03/12/07 23:02	8151A	7031864
Sample ID: NQC1199-02 (Trip Blank - Water) Sampled: 03/07/07 00:01								
Purgeable Organic Compounds by EPA Method 624								
Acetone	ND		ug/L	50.0	1	03/13/07 15:02	EPA 624	7032137
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Benzene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Carbon Tetrachloride	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,2-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,4-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,3-Dichlorobenzene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,2-Dichloroethane	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,1-Dichloroethane	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,1-Dichloroethene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,4-Dioxane	ND		ug/L	100	1	03/13/07 15:02	EPA 624	7032137
Ethylbenzene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Methylene Chloride	ND		ug/L	5.00	1	03/13/07 15:02	EPA 624	7032137
Naphthalene	ND		ug/L	5.00	1	03/13/07 15:02	EPA 624	7032137
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	03/13/07 15:02	EPA 624	7032137
Tetrachloroethene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Toluene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,1,2-Trichloroethane	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
1,1,1-Trichloroethane	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Trichloroethene	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Vinyl chloride	ND		ug/L	1.00	1	03/13/07 15:02	EPA 624	7032137
Xylenes, total	ND		ug/L	2.00	1	03/13/07 15:02	EPA 624	7032137
Surr: 1,2-Dichloroethane-d4 (62-142%)	90 %					03/13/07 15:02	EPA 624	7032137
Surr: Dibromofluoromethane (78-123%)	97 %					03/13/07 15:02	EPA 624	7032137
Surr: Toluene-d8 (79-120%)	93 %					03/13/07 15:02	EPA 624	7032137
Surr: 4-Bromofluorobenzene (75-133%)	93 %					03/13/07 15:02	EPA 624	7032137

Client Sovereign Consulting (Mansfield) / SHELL (13859)
 905B South Main Street, Suite 202
 Mansfield, MA 02048
 Attn Eric Simpson

Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Acid and Base/Neutral Extractables by EPA Method 625							
EPA 625	7031808	NQC1199-01	1060.00	1.00	03/10/07 15:45	SHJ	EPA 625
Chlorinated Herbicides by EPA Method 8151A							
8151A	7031864	NQC1199-01	1050.00	10.00	03/10/07 12:48	SHJ	EPA 8151A
Mercury by EPA 245.1							
EPA 245.1	7032065	NQC1199-01	30.00	30.00	03/12/07 10:17	LTB	EPA 245.1
Organochlorine Pesticides and/or PCBs by EPA Method 608							
EPA 608	7031814	NQC1199-01	500.00	2.00	03/10/07 08:32	SHJ	EPA 608
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)							
EPA 610	7031811	NQC1199-01	1060.00	1.00	03/10/07 15:45	SHJ	EPA 610
EPA 610	7031811	NQC1199-01RE1	1060.00	1.00	03/10/07 15:45	SHJ	EPA 610
EPA 610	7031811	NQC1199-01RE2	1060.00	1.00	03/10/07 15:45	SHJ	EPA 610
Total Metals by EPA Method 200.7							
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7
EPA 200.7	7032037	NQC1199-01	50.00	50.00	03/12/07 08:22	JMR	EPA 200.7

Client Sovereign Consulting (Mansfield) / SHELL (13859]
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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
7031493-BLK1						
Residual Chlorine	<0.0100		mg/L	7031493	7031493-BLK1	03/12/07 10:00
7031765-BLK1						
Total Suspended Solids	<0.500		mg/L	7031765	7031765-BLK1	03/09/07 19:25
7031834-BLK1						
Chromium (VI)	<0.00400		mg/L	7031834	7031834-BLK1	03/09/07 23:30
7032188-BLK1						
Cyanide	<0.0020		mg/L	7032188	7032188-BLK1	03/14/07 11:30
7032430-BLK1						
Silica Gel Treated HEM (SGT-HEM)	<0.833		mg/L	7032430	7032430-BLK1	03/14/07 14:41
Total Metals by EPA Method 200.7						
7032037-BLK1						
Antimony	<0.00800		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Arsenic	<0.00450		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Cadmium	<0.000800		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Chromium	<0.00250		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Copper	<0.00300		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Iron	<0.0430		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Lead	<0.00300		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Nickel	<0.00300		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Selenium	<0.00500		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Silver	<0.00300		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Zinc	<0.0200		mg/L	7032037	7032037-BLK1	03/12/07 15:11
Mercury by EPA 245.1						
7032065-BLK1						
Mercury	<0.000100		mg/L	7032065	7032065-BLK1	03/13/07 11:50
EDB and DBCP by EPA Method 504.1						
7031892-BLK1						
1,2-Dibromoethane (EDB)	<1.000E-5		ug/L	7031892	7031892-BLK1	03/14/07 13:14
Surrogate: 1,3-Dichlorobenzene	151%			7031892	7031892-BLK1	03/14/07 13:14
Organochlorine Pesticides and/or PCBs by EPA Method 608						
7031814-BLK1						
PCB-1016	<0.190		ug/L	7031814	7031814-BLK1	03/11/07 04:07
PCB-1221	<0.270		ug/L	7031814	7031814-BLK1	03/11/07 04:07
PCB-1232	<0.110		ug/L	7031814	7031814-BLK1	03/11/07 04:07

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PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Organochlorine Pesticides and/or PCBs by EPA Method 608

7031814-BLK1

PCB-1242	<0.180		ug/L	7031814	7031814-BLK1	03/11/07 04:07
PCB-1248	<0.0900		ug/L	7031814	7031814-BLK1	03/11/07 04:07
PCB-1254	<0.100		ug/L	7031814	7031814-BLK1	03/11/07 04:07
PCB-1260	<0.0900		ug/L	7031814	7031814-BLK1	03/11/07 04:07
Surrogate: Tetrachloro-meta-xylene	76%			7031814	7031814-BLK1	03/11/07 04:07
Surrogate: Decachlorobiphenyl	29%			7031814	7031814-BLK1	03/11/07 04:07

Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)

7031811-BLK1

1-Methylnaphthalene	<0.250		ug/L	7031811	7031811-BLK1	03/12/07 22:10
2-Methylnaphthalene	<0.330		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Acenaphthene	<0.240		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Acenaphthylene	<0.330		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Anthracene	<0.130		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Benzo (a) anthracene	<0.0700		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Benzo (a) pyrene	<0.0700		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Benzo (b) fluoranthene	<0.0800		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Benzo (g,h,i) perylene	<0.190		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Benzo (k) fluoranthene	<0.120		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Chrysene	<0.0800		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Dibenz (a,h) anthracene	<0.150		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Fluoranthene	<0.0900		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Fluorene	<0.110		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Indeno (1,2,3-cd) pyrene	<0.140		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Naphthalene	<0.350		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Phenanthrene	<0.100		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Pyrene	<0.0900		ug/L	7031811	7031811-BLK1	03/12/07 22:10
Surrogate: p-Terphenyl	100%			7031811	7031811-BLK1	03/12/07 22:10

Purgeable Organic Compounds by EPA Method 624

7031556-BLK1

Benzene	<0.120		ug/L	7031556	7031556-BLK1	03/14/07 03:11
Ethylbenzene	<0.110		ug/L	7031556	7031556-BLK1	03/14/07 03:11
Naphthalene	2.60		ug/L	7031556	7031556-BLK1	03/14/07 03:11
Toluene	<0.130		ug/L	7031556	7031556-BLK1	03/14/07 03:11
Xylenes, total	<0.280		ug/L	7031556	7031556-BLK1	03/14/07 03:11
Surrogate: 1,2-Dichloroethane-d4	90%			7031556	7031556-BLK1	03/14/07 03:11
Surrogate: Dibromofluoromethane	95%			7031556	7031556-BLK1	03/14/07 03:11
Surrogate: Toluene-d8	93%			7031556	7031556-BLK1	03/14/07 03:11
Surrogate: 4-Bromofluorobenzene	94%			7031556	7031556-BLK1	03/14/07 03:11

7032137-BLK1

Client Sovereign Consulting (Mansfield) / SHELL (13859)
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 Attn Eric Simpson

Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624						
7032137-BLK1						
Acetone	<2.54		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Acrolein	<4.58		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Acrylonitrile	<3.31		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Tert-Amyl Methyl Ether	<0.170		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Benzene	<0.120		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Bromodichloromethane	<0.190		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Bromoform	<0.110		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Bromomethane	<0.280		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Carbon Tetrachloride	<0.260		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Chlorobenzene	<0.130		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Chlorodibromomethane	<0.320		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Chloroethane	<0.140		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Chloroform	<0.110		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Chloromethane	<0.260		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,2-Dichlorobenzene	<0.160		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,4-Dichlorobenzene	<0.200		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,3-Dichlorobenzene	<0.130		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Dichlorodifluoromethane	<0.420		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,2-Dichloroethane	<0.140		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,1-Dichloroethane	<0.170		ug/L	7032137	7032137-BLK1	03/13/07 14:07
cis-1,2-Dichloroethene	<0.150		ug/L	7032137	7032137-BLK1	03/13/07 14:07
trans-1,2-Dichloroethene	<0.170		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,1-Dichloroethene	<0.210		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,2-Dichloropropane	<0.220		ug/L	7032137	7032137-BLK1	03/13/07 14:07
cis-1,3-Dichloropropene	<0.120		ug/L	7032137	7032137-BLK1	03/13/07 14:07
trans-1,3-Dichloropropene	<0.110		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,4-Dioxane	<24.2		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Ethylbenzene	<0.110		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Methyl tert-Butyl Ether	<0.150		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Methylene Chloride	1.20		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Naphthalene	1.92		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Tertiary Butyl Alcohol	<15.5		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,1,2,2-Tetrachloroethane	<0.150		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Tetrachloroethene	<0.220		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Toluene	<0.130		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,1,2-Trichloroethane	<0.120		ug/L	7032137	7032137-BLK1	03/13/07 14:07
1,1,1-Trichloroethane	<0.220		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Trichloroethene	<0.380		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Trichlorofluoromethane	<0.180		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Vinyl chloride	<0.190		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Xylenes, total	<0.280		ug/L	7032137	7032137-BLK1	03/13/07 14:07
Surrogate: 1,2-Dichloroethane-d4	91%			7032137	7032137-BLK1	03/13/07 14:07

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 Project Number: SAP 100074 / EQ 808
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PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Purgeable Organic Compounds by EPA Method 624

7032137-BLK1

Surrogate: Dibromofluoromethane	96%			7032137	7032137-BLK1	03/13/07 14:07
Surrogate: Toluene-d8	94%			7032137	7032137-BLK1	03/13/07 14:07
Surrogate: 4-Bromofluorobenzene	97%			7032137	7032137-BLK1	03/13/07 14:07

Acid and Base/Neutral Extractables by EPA Method 625

7031808-BLK1

Butyl benzyl phthalate	<1.50		ug/L	7031808	7031808-BLK1	03/15/07 12:08
4-Chloro-3-methylphenol	<1.60		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2-Chlorophenol	<1.50		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Di-n-butyl phthalate	<1.60		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2,4-Dichlorophenol	<1.40		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Diethyl phthalate	<1.50		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2,4-Dimethylphenol	<3.80		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Dimethyl phthalate	<1.90		ug/L	7031808	7031808-BLK1	03/15/07 12:08
4,6-Dinitro-2-methylphenol	<3.20		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2,4-Dinitrophenol	<5.50		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Di-n-octyl phthalate	<1.40		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Bis(2-ethylhexyl)phthalate	<1.40		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2-Nitrophenol	<1.70		ug/L	7031808	7031808-BLK1	03/15/07 12:08
4-Nitrophenol	<1.90		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Pentachlorophenol	<8.70		ug/L	7031808	7031808-BLK1	03/15/07 12:08
2,4,6-Trichlorophenol	<1.50		ug/L	7031808	7031808-BLK1	03/15/07 12:08
Surrogate: Terphenyl-d14	109%			7031808	7031808-BLK1	03/15/07 12:08
Surrogate: 2,4,6-Tribromophenol	90%			7031808	7031808-BLK1	03/15/07 12:08
Surrogate: Phenol-d5	26%			7031808	7031808-BLK1	03/15/07 12:08
Surrogate: 2-Fluorobiphenyl	77%			7031808	7031808-BLK1	03/15/07 12:08
Surrogate: 2-Fluorophenol	47%			7031808	7031808-BLK1	03/15/07 12:08
Surrogate: Nitrobenzene-d5	71%			7031808	7031808-BLK1	03/15/07 12:08

Chlorinated Herbicides by EPA Method 8151A

7031864-BLK1

Pentachlorophenol	<0.0300		ug/L	7031864	7031864-BLK1	03/12/07 20:28
Surrogate: Dichloroacetic Acid	105%			7031864	7031864-BLK1	03/12/07 20:28

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
7031493-DUP1									
Residual Chlorine	ND	ND	HTI	mg/L		20	7031493	NQC1051-01	03/12/07 10:00
7031765-DUP1									
Total Suspended Solids	254	256		mg/L	0.8	20	7031765	NQC1311-03	03/09/07 19:25
7031834-DUP1									
Chromium (VI)	ND	<0.00400		mg/L		10	7031834	NQC1199-01	03/09/07 23:30
7032188-DUP1									
Cyanide	0.00250	0.0029		mg/L	15	29	7032188	NQC1199-01	03/14/07 11:30

Client Sovereign Consulting (Mansfield) / SHELL (13859]
 905B South Main Street, Suite 202
 Mansfield, MA 02048
 Attn Eric Simpson

Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
7031493-BS1								
Residual Chlorine	0.200	0.202		ug/mL	101%	90 - 110	7031493	03/12/07 10:00
7031765-BS1								
Total Suspended Solids	100	99.0		mg/L	99%	90 - 110	7031765	03/09/07 19:25
7031834-BS1								
Chromium (VI)	0.100	0.104		ug/mL	104%	85 - 115	7031834	03/09/07 23:30
7032188-BS1								
Cyanide	0.100	0.1079		ug/mL	108%	90 - 110	7032188	03/14/07 11:30
7032430-BS2								
Silica Gel Treated HEM (SGT-HEM)	20.0	18.4		mg/L	92%	64 - 132	7032430	03/14/07 14:41
Total Metals by EPA Method 200.7								
7032037-BS1								
Antimony	0.100	0.0929		mg/L	93%	85 - 115	7032037	03/12/07 15:19
Arsenic	0.0500	0.0504		mg/L	101%	85 - 115	7032037	03/12/07 15:19
Cadmium	0.0500	0.0562		mg/L	112%	85 - 115	7032037	03/12/07 15:19
Chromium	0.200	0.209		mg/L	104%	85 - 115	7032037	03/12/07 15:19
Copper	0.250	0.250		mg/L	100%	85 - 115	7032037	03/12/07 15:19
Iron	1.00	1.11		mg/L	111%	85 - 115	7032037	03/12/07 15:19
Lead	0.0500	0.0482		mg/L	96%	85 - 115	7032037	03/12/07 15:19
Nickel	0.500	0.536		mg/L	107%	85 - 115	7032037	03/12/07 15:19
Selenium	0.0500	0.0554		mg/L	111%	85 - 115	7032037	03/12/07 15:19
Silver	0.0500	0.0518		mg/L	104%	85 - 115	7032037	03/12/07 15:19
Zinc	0.500	0.518		mg/L	104%	85 - 115	7032037	03/12/07 15:19
Mercury by EPA 245.1								
7032065-BS1								
Mercury	0.00100	0.000968		mg/L	97%	85 - 115	7032065	03/13/07 11:52
EDB and DBCP by EPA Method 504.1								
7031892-BS1								
1,2-Dibromoethane (EDB)	0.286	0.343		ug/L	120%	70 - 130	7031892	03/14/07 13:34
<i>Surrogate: 1,3-Dichlorobenzene</i>	5.71	8.34			146%	52 - 170	7031892	03/14/07 13:34
Organochlorine Pesticides and/or PCBs by EPA Method 608								
7031814-BS1								
PCB-1248	10.0	8.27		ug/L	83%	38 - 158	7031814	03/11/07 04:28
<i>Surrogate: Tetrachloro-meta-xylene</i>	1.00	0.800			80%	44 - 131	7031814	03/11/07 04:28
<i>Surrogate: Decachlorobiphenyl</i>	1.00	0.252			25%	24 - 110	7031814	03/11/07 04:28

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Organochlorine Pesticides and/or PCBs by EPA Method 608								
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)								
7031811-BS1								
1-Methylnaphthalene	2.00	1.37		ug/L	68%	50 - 125	7031811	03/12/07 22:37
2-Methylnaphthalene	2.00	1.69		ug/L	84%	38 - 118	7031811	03/12/07 22:37
Acenaphthene	2.00	1.35		ug/L	68%	10 - 124	7031811	03/12/07 22:37
Acenaphthylene	5.50	4.62		ug/L	84%	10 - 139	7031811	03/12/07 22:37
Anthracene	2.00	1.87		ug/L	94%	10 - 126	7031811	03/12/07 22:37
Benzo (a) anthracene	2.00	1.97		ug/L	98%	12 - 135	7031811	03/12/07 22:37
Benzo (a) pyrene	2.00	1.85		ug/L	92%	10 - 128	7031811	03/12/07 22:37
Benzo (b) fluoranthene	2.00	1.98		ug/L	99%	10 - 150	7031811	03/12/07 22:37
Benzo (g,h,i) perylene	2.00	1.92		ug/L	96%	10 - 116	7031811	03/12/07 22:37
Benzo (k) fluoranthene	2.00	1.97		ug/L	98%	10 - 159	7031811	03/12/07 22:37
Chrysene	2.00	2.07		ug/L	104%	10 - 199	7031811	03/12/07 22:37
Dibenz (a,h) anthracene	2.00	1.77		ug/L	88%	10 - 110	7031811	03/12/07 22:37
Fluoranthene	2.00	1.93		ug/L	96%	14 - 123	7031811	03/12/07 22:37
Fluorene	2.00	1.66		ug/L	83%	10 - 142	7031811	03/12/07 22:37
Indeno (1,2,3-cd) pyrene	2.00	2.02		ug/L	101%	10 - 116	7031811	03/12/07 22:37
Naphthalene	2.00	1.95		ug/L	98%	10 - 122	7031811	03/12/07 22:37
Phenanthrene	2.00	1.79		ug/L	90%	10 - 155	7031811	03/12/07 22:37
Pyrene	2.00	1.98		ug/L	99%	10 - 140	7031811	03/12/07 22:37
Surrogate: <i>p</i> -Terphenyl	1.00	0.989			99%	55 - 122	7031811	03/12/07 22:37

Purgeable Organic Compounds by EPA Method 624

7031556-BS1								
Benzene	20.0	22.5		ug/L	112%	37 - 151	7031556	03/14/07 01:50
Ethylbenzene	20.0	21.1		ug/L	106%	37 - 162	7031556	03/14/07 01:50
Naphthalene	20.0	21.6		ug/L	108%	71 - 152	7031556	03/14/07 01:50
Toluene	20.0	21.6		ug/L	108%	47 - 150	7031556	03/14/07 01:50
Xylenes, total	60.0	62.7		ug/L	104%	83 - 130	7031556	03/14/07 01:50
Surrogate: 1,2-Dichloroethane-d4	30.0	26.3			88%	62 - 142	7031556	03/14/07 01:50
Surrogate: Dibromofluoromethane	30.0	29.2			97%	78 - 123	7031556	03/14/07 01:50
Surrogate: Toluene-d8	30.0	28.4			95%	79 - 120	7031556	03/14/07 01:50
Surrogate: 4-Bromofluorobenzene	30.0	29.0			97%	75 - 133	7031556	03/14/07 01:50

7032137-BS1

Acetone	100	114		ug/L	114%	57 - 148	7032137	03/13/07 12:19
Acrolein	100	210	L	ug/L	210%	47 - 149	7032137	03/13/07 12:19
Acrylonitrile	100	110		ug/L	110%	77 - 124	7032137	03/13/07 12:19
Tert-Amyl Methyl Ether	20.0	19.8		ug/L	99%	80 - 131	7032137	03/13/07 12:19
Benzene	20.0	21.6		ug/L	108%	37 - 151	7032137	03/13/07 12:19
Bromodichloromethane	20.0	21.3		ug/L	106%	35 - 155	7032137	03/13/07 12:19
Bromoform	20.0	17.4		ug/L	87%	45 - 169	7032137	03/13/07 12:19

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624								
7032137-BS1								
Bromomethane	20.0	20.3		ug/L	102%	10 - 242	7032137	03/13/07 12:19
Carbon Tetrachloride	20.0	20.5		ug/L	102%	70 - 140	7032137	03/13/07 12:19
Chlorobenzene	20.0	20.8		ug/L	104%	37 - 160	7032137	03/13/07 12:19
Chlorodibromomethane	20.0	20.3		ug/L	102%	53 - 149	7032137	03/13/07 12:19
Chloroethane	20.0	18.4		ug/L	92%	14 - 230	7032137	03/13/07 12:19
Chloroform	20.0	22.4		ug/L	112%	51 - 138	7032137	03/13/07 12:19
Chloromethane	20.0	15.6		ug/L	78%	10 - 273	7032137	03/13/07 12:19
1,2-Dichlorobenzene	20.0	21.5		ug/L	108%	18 - 190	7032137	03/13/07 12:19
1,4-Dichlorobenzene	20.0	20.4		ug/L	102%	18 - 190	7032137	03/13/07 12:19
1,3-Dichlorobenzene	20.0	20.0		ug/L	100%	59 - 156	7032137	03/13/07 12:19
Dichlorodifluoromethane	20.0	18.5		ug/L	92%	10 - 157	7032137	03/13/07 12:19
1,2-Dichloroethane	20.0	20.8		ug/L	104%	49 - 155	7032137	03/13/07 12:19
1,1-Dichloroethane	20.0	21.4		ug/L	107%	59 - 155	7032137	03/13/07 12:19
cis-1,2-Dichloroethene	20.0	21.0		ug/L	105%	79 - 132	7032137	03/13/07 12:19
trans-1,2-Dichloroethene	20.0	22.0		ug/L	110%	54 - 156	7032137	03/13/07 12:19
1,1-Dichloroethene	20.0	24.2		ug/L	121%	10 - 234	7032137	03/13/07 12:19
1,2-Dichloropropane	20.0	19.6		ug/L	98%	10 - 210	7032137	03/13/07 12:19
cis-1,3-Dichloropropene	20.0	21.4		ug/L	107%	10 - 227	7032137	03/13/07 12:19
trans-1,3-Dichloropropene	20.0	21.4		ug/L	107%	17 - 183	7032137	03/13/07 12:19
1,4-Dioxane	2000	2470		ug/L	124%	37 - 168	7032137	03/13/07 12:19
Ethylbenzene	20.0	20.5		ug/L	102%	37 - 162	7032137	03/13/07 12:19
Methyl tert-Butyl Ether	20.0	18.9		ug/L	94%	80 - 122	7032137	03/13/07 12:19
Methylene Chloride	20.0	23.1		ug/L	116%	10 - 221	7032137	03/13/07 12:19
Naphthalene	20.0	16.6		ug/L	83%	71 - 152	7032137	03/13/07 12:19
Tertiary Butyl Alcohol	200	259		ug/L	130%	61 - 174	7032137	03/13/07 12:19
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L	104%	46 - 157	7032137	03/13/07 12:19
Tetrachloroethene	20.0	21.7		ug/L	108%	64 - 148	7032137	03/13/07 12:19
Toluene	20.0	20.7		ug/L	104%	47 - 150	7032137	03/13/07 12:19
1,1,2-Trichloroethane	20.0	21.8		ug/L	109%	52 - 150	7032137	03/13/07 12:19
1,1,1-Trichloroethane	20.0	21.2		ug/L	106%	52 - 162	7032137	03/13/07 12:19
Trichloroethene	20.0	22.5		ug/L	112%	71 - 157	7032137	03/13/07 12:19
Trichlorofluoromethane	20.0	21.3		ug/L	106%	17 - 181	7032137	03/13/07 12:19
Vinyl chloride	20.0	18.5		ug/L	92%	10 - 251	7032137	03/13/07 12:19
Xylenes, total	60.0	61.2		ug/L	102%	83 - 130	7032137	03/13/07 12:19
Surrogate: 1,2-Dichloroethane-d4	30.0	26.9			90%	62 - 142	7032137	03/13/07 12:19
Surrogate: Dibromofluoromethane	30.0	30.2			101%	78 - 123	7032137	03/13/07 12:19
Surrogate: Toluene-d8	30.0	28.4			95%	79 - 120	7032137	03/13/07 12:19
Surrogate: 4-Bromofluorobenzene	30.0	28.6			95%	75 - 133	7032137	03/13/07 12:19

Acid and Base/Neutral Extractables by EPA Method 625
7031808-BS1

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625								
7031808-BS1								
Butyl benzyl phthalate	50.0	58.4		ug/L	117%	10 - 152	7031808	03/15/07 12:28
4-Chloro-3-methylphenol	50.0	44.1		ug/L	88%	22 - 147	7031808	03/15/07 12:28
2-Chlorophenol	50.0	43.0		ug/L	86%	23 - 134	7031808	03/15/07 12:28
Di-n-butyl phthalate	50.0	53.3		ug/L	107%	10 - 118	7031808	03/15/07 12:28
2,4-Dichlorophenol	50.0	48.8		ug/L	98%	39 - 135	7031808	03/15/07 12:28
Diethyl phthalate	50.0	47.4		ug/L	95%	10 - 114	7031808	03/15/07 12:28
2,4-Dimethylphenol	50.0	18.2		ug/L	36%	32 - 119	7031808	03/15/07 12:28
Dimethyl phthalate	50.0	51.3		ug/L	103%	10 - 112	7031808	03/15/07 12:28
4,6-Dinitro-2-methylphenol	50.0	54.2		ug/L	108%	10 - 181	7031808	03/15/07 12:28
2,4-Dinitrophenol	50.0	53.6		ug/L	107%	10 - 191	7031808	03/15/07 12:28
Di-n-octyl phthalate	50.0	57.8		ug/L	116%	10 - 146	7031808	03/15/07 12:28
Bis(2-ethylhexyl)phthalate	50.0	53.6		ug/L	107%	10 - 158	7031808	03/15/07 12:28
2-Nitrophenol	50.0	46.9		ug/L	94%	29 - 182	7031808	03/15/07 12:28
4-Nitrophenol	50.0	24.8		ug/L	50%	10 - 132	7031808	03/15/07 12:28
Pentachlorophenol	50.0	66.6		ug/L	133%	14 - 176	7031808	03/15/07 12:28
2,4,6-Trichlorophenol	50.0	52.8		ug/L	106%	37 - 144	7031808	03/15/07 12:28
Surrogate: Terphenyl-d14	50.2	59.6			119%	32 - 151	7031808	03/15/07 12:28
Surrogate: 2,4,6-Tribromophenol	50.2	58.9			117%	26 - 148	7031808	03/15/07 12:28
Surrogate: Phenol-d5	50.2	21.0			42%	10 - 94	7031808	03/15/07 12:28
Surrogate: 2-Fluorobiphenyl	50.2	49.0			98%	23 - 130	7031808	03/15/07 12:28
Surrogate: 2-Fluorophenol	50.2	30.5			61%	10 - 97	7031808	03/15/07 12:28
Surrogate: Nitrobenzene-d5	50.2	47.2			94%	38 - 136	7031808	03/15/07 12:28
7031808-BS2								
4-Chloro-3-methylphenol	50.0	48.9		ug/L	98%	22 - 147	7031808	03/15/07 23:16
2-Chlorophenol	50.0	43.7		ug/L	87%	23 - 134	7031808	03/15/07 23:16
2,4-Dichlorophenol	50.0	51.7		ug/L	103%	39 - 135	7031808	03/15/07 23:16
2,4-Dimethylphenol	50.0	24.0		ug/L	48%	32 - 119	7031808	03/15/07 23:16
4,6-Dinitro-2-methylphenol	50.0	16.7		ug/L	33%	10 - 181	7031808	03/15/07 23:16
2,4-Dinitrophenol	50.0	16.4		ug/L	33%	10 - 191	7031808	03/15/07 23:16
2-Nitrophenol	50.0	43.9		ug/L	88%	29 - 182	7031808	03/15/07 23:16
4-Nitrophenol	50.0	18.3		ug/L	37%	10 - 132	7031808	03/15/07 23:16
Pentachlorophenol	50.0	55.3		ug/L	111%	14 - 176	7031808	03/15/07 23:16
Phenol	50.0	17.6		ug/L	35%	10 - 112	7031808	03/15/07 23:16
2,4,6-Trichlorophenol	50.0	54.3		ug/L	109%	37 - 144	7031808	03/15/07 23:16
Surrogate: Terphenyl-d14	50.2	61.1			122%	32 - 151	7031808	03/15/07 23:16
Surrogate: 2,4,6-Tribromophenol	50.2	56.9			113%	26 - 148	7031808	03/15/07 23:16
Surrogate: Phenol-d5	50.2	18.8			37%	10 - 94	7031808	03/15/07 23:16
Surrogate: 2-Fluorobiphenyl	50.2	46.1			92%	23 - 130	7031808	03/15/07 23:16
Surrogate: 2-Fluorophenol	50.2	27.3			54%	10 - 97	7031808	03/15/07 23:16
Surrogate: Nitrobenzene-d5	50.2	44.1			88%	38 - 136	7031808	03/15/07 23:16

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 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Chlorinated Herbicides by EPA Method 8151A								
7031864-BS1								
Pentachlorophenol	5.00	5.15		ug/L	103%	26 - 131	7031864	03/12/07 20:59
<i>Surrogate: Dichloroacetic Acid</i>	5.00	5.08			102%	32 - 155	7031864	03/12/07 20:59

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PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
7032188-BSD1												
Cyanide		0.1036		ug/mL	0.100	104%	90 - 110	4	29	7032188		03/14/07 11:30
Total Metals by EPA Method 200.7												
7032037-BSD1												
Antimony		0.0953		mg/L	0.100	95%	85 - 115	3	20	7032037		03/12/07 16:08
Arsenic		0.0553		mg/L	0.0500	111%	85 - 115	9	20	7032037		03/12/07 16:08
Cadmium		0.0553		mg/L	0.0500	111%	85 - 115	2	20	7032037		03/12/07 16:08
Chromium		0.216		mg/L	0.200	108%	85 - 115	3	20	7032037		03/12/07 16:08
Copper		0.245		mg/L	0.250	98%	85 - 115	2	20	7032037		03/12/07 16:08
Iron		1.15		mg/L	1.00	115%	85 - 115	4	20	7032037		03/12/07 16:08
Lead		0.0484		mg/L	0.0500	97%	85 - 115	0.4	20	7032037		03/12/07 16:08
Nickel		0.522		mg/L	0.500	104%	85 - 115	3	20	7032037		03/12/07 16:08
Selenium		0.0535		mg/L	0.0500	107%	85 - 115	3	20	7032037		03/12/07 16:08
Silver		0.0569		mg/L	0.0500	114%	85 - 115	9	20	7032037		03/12/07 16:08
Zinc		0.523		mg/L	0.500	105%	85 - 115	1	20	7032037		03/12/07 16:08
Mercury by EPA 245.1												
7032065-BSD1												
Mercury		0.000938		mg/L	0.00100	94%	85 - 115	3	20	7032065		03/13/07 11:54
Organochlorine Pesticides and/or PCBs by EPA Method 608												
7031814-BSD1												
PCB-1248		8.59		ug/L	10.0	86%	38 - 158	4	39	7031814		03/11/07 04:48
Surrogate: Tetrachloro-meta-xylene		0.796		ug/L	1.00	80%	44 - 131			7031814		03/11/07 04:48
Surrogate: Decachlorobiphenyl		0.240		ug/L	1.00	24%	24 - 110			7031814		03/11/07 04:48
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)												
7031811-BSD1												
1-Methylnaphthalene		1.27		ug/L	2.00	64%	50 - 125	8	40	7031811		03/12/07 23:05
2-Methylnaphthalene		1.50		ug/L	2.00	75%	38 - 118	12	28	7031811		03/12/07 23:05
Acenaphthene		1.20		ug/L	2.00	60%	10 - 124	12	47	7031811		03/12/07 23:05
Acenaphthylene		4.19		ug/L	5.50	76%	10 - 139	10	32	7031811		03/12/07 23:05
Anthracene		1.69		ug/L	2.00	84%	10 - 126	10	21	7031811		03/12/07 23:05
Benzo (a) anthracene		1.88		ug/L	2.00	94%	12 - 135	5	23	7031811		03/12/07 23:05
Benzo (a) pyrene		1.65		ug/L	2.00	82%	10 - 128	11	43	7031811		03/12/07 23:05
Benzo (b) fluoranthene		1.68		ug/L	2.00	84%	10 - 150	16	33	7031811		03/12/07 23:05
Benzo (g,h,i) perylene		1.65		ug/L	2.00	82%	10 - 116	15	41	7031811		03/12/07 23:05
Benzo (k) fluoranthene		1.78		ug/L	2.00	89%	10 - 159	10	35	7031811		03/12/07 23:05
Chrysene		2.00		ug/L	2.00	100%	10 - 199	3	22	7031811		03/12/07 23:05
Dibenz (a,h) anthracene		1.53		ug/L	2.00	76%	10 - 110	15	50	7031811		03/12/07 23:05
Fluoranthene		1.73		ug/L	2.00	86%	14 - 123	11	29	7031811		03/12/07 23:05

Client Sovereign Consulting (Mansfield) / SHELL (13859)
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Work Order: NQC1199
 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polynuclear Aromatic Hydrocarbons by EPA Method 610 (HPLC)												
7031811-BSD1												
Fluorene		1.50		ug/L	2.00	75%	10 - 142	10	50	7031811		03/12/07 23:05
Indeno (1,2,3-cd) pyrene		1.78		ug/L	2.00	89%	10 - 116	13	50	7031811		03/12/07 23:05
Naphthalene		1.76		ug/L	2.00	88%	10 - 122	10	23	7031811		03/12/07 23:05
Phenanthrene		1.71		ug/L	2.00	86%	10 - 155	5	50	7031811		03/12/07 23:05
Pyrene		1.89		ug/L	2.00	94%	10 - 140	5	30	7031811		03/12/07 23:05
Surrogate: <i>p</i> -Terphenyl		0.928		ug/L	1.00	93%	55 - 122			7031811		03/12/07 23:05
Purgeable Organic Compounds by EPA Method 624												
7031556-BSD1												
Benzene		19.6		ug/L	20.0	98%	37 - 151	14	200	7031556		03/14/07 09:29
Ethylbenzene		18.2		ug/L	20.0	91%	37 - 162	15	200	7031556		03/14/07 09:29
Naphthalene		23.0		ug/L	20.0	115%	71 - 152	6	200	7031556		03/14/07 09:29
Toluene		19.0		ug/L	20.0	95%	47 - 150	13	200	7031556		03/14/07 09:29
Xylenes, total		54.1		ug/L	60.0	90%	83 - 130	15	200	7031556		03/14/07 09:29
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		25.7		ug/L	30.0	86%	62 - 142			7031556		03/14/07 09:29
Surrogate: Dibromofluoromethane		29.4		ug/L	30.0	98%	78 - 123			7031556		03/14/07 09:29
Surrogate: Toluene- <i>d</i> 8		28.1		ug/L	30.0	94%	79 - 120			7031556		03/14/07 09:29
Surrogate: 4-Bromofluorobenzene		26.6		ug/L	30.0	89%	75 - 133			7031556		03/14/07 09:29
7032137-BSD1												
Acetone		118		ug/L	100	118%	57 - 148	3	200	7032137		03/13/07 12:46
Acrolein		195	L	ug/L	100	195%	47 - 149	7	200	7032137		03/13/07 12:46
Acrylonitrile		99.8		ug/L	100	100%	77 - 124	10	200	7032137		03/13/07 12:46
Tert-Amyl Methyl Ether		19.3		ug/L	20.0	96%	80 - 131	3	200	7032137		03/13/07 12:46
Benzene		21.0		ug/L	20.0	105%	37 - 151	3	200	7032137		03/13/07 12:46
Bromodichloromethane		20.6		ug/L	20.0	103%	35 - 155	3	200	7032137		03/13/07 12:46
Bromoform		16.7		ug/L	20.0	84%	45 - 169	4	200	7032137		03/13/07 12:46
Bromomethane		22.1		ug/L	20.0	110%	10 - 242	8	200	7032137		03/13/07 12:46
Carbon Tetrachloride		20.6		ug/L	20.0	103%	70 - 140	0.5	200	7032137		03/13/07 12:46
Chlorobenzene		19.7		ug/L	20.0	98%	37 - 160	5	200	7032137		03/13/07 12:46
Chlorodibromomethane		19.8		ug/L	20.0	99%	53 - 149	2	200	7032137		03/13/07 12:46
Chloroethane		18.6		ug/L	20.0	93%	14 - 230	1	200	7032137		03/13/07 12:46
Chloroform		21.7		ug/L	20.0	108%	51 - 138	3	200	7032137		03/13/07 12:46
Chloromethane		15.7		ug/L	20.0	78%	10 - 273	0.6	200	7032137		03/13/07 12:46
1,2-Dichlorobenzene		20.9		ug/L	20.0	104%	18 - 190	3	200	7032137		03/13/07 12:46
1,4-Dichlorobenzene		19.4		ug/L	20.0	97%	18 - 190	5	200	7032137		03/13/07 12:46
1,3-Dichlorobenzene		19.4		ug/L	20.0	97%	59 - 156	3	200	7032137		03/13/07 12:46
Dichlorodifluoromethane		17.6		ug/L	20.0	88%	10 - 157	5	200	7032137		03/13/07 12:46
1,2-Dichloroethane		20.2		ug/L	20.0	101%	49 - 155	3	200	7032137		03/13/07 12:46
1,1-Dichloroethane		20.4		ug/L	20.0	102%	59 - 155	5	200	7032137		03/13/07 12:46
cis-1,2-Dichloroethene		20.4		ug/L	20.0	102%	79 - 132	3	200	7032137		03/13/07 12:46

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Organic Compounds by EPA Method 624												
7032137-BSD1												
trans-1,2-Dichloroethene		21.1		ug/L	20.0	106%	54 - 156	4	200	7032137		03/13/07 12:46
1,1-Dichloroethene		22.9		ug/L	20.0	114%	10 - 234	6	200	7032137		03/13/07 12:46
1,2-Dichloropropane		18.9		ug/L	20.0	94%	10 - 210	4	200	7032137		03/13/07 12:46
cis-1,3-Dichloropropene		20.4		ug/L	20.0	102%	10 - 227	5	200	7032137		03/13/07 12:46
trans-1,3-Dichloropropene		21.1		ug/L	20.0	106%	17 - 183	1	200	7032137		03/13/07 12:46
1,4-Dioxane		2780		ug/L	2000	139%	37 - 168	12	200	7032137		03/13/07 12:46
Ethylbenzene		19.4		ug/L	20.0	97%	37 - 162	6	200	7032137		03/13/07 12:46
Methyl tert-Butyl Ether		18.4		ug/L	20.0	92%	80 - 122	3	200	7032137		03/13/07 12:46
Methylene Chloride		22.5		ug/L	20.0	112%	10 - 221	3	200	7032137		03/13/07 12:46
Naphthalene		27.1		ug/L	20.0	136%	71 - 152	48	200	7032137		03/13/07 12:46
Tertiary Butyl Alcohol		254		ug/L	200	127%	61 - 174	2	200	7032137		03/13/07 12:46
1,1,2,2-Tetrachloroethane		20.2		ug/L	20.0	101%	46 - 157	3	200	7032137		03/13/07 12:46
Tetrachloroethene		20.5		ug/L	20.0	102%	64 - 148	6	200	7032137		03/13/07 12:46
Toluene		19.5		ug/L	20.0	98%	47 - 150	6	200	7032137		03/13/07 12:46
1,1,2-Trichloroethane		20.5		ug/L	20.0	102%	52 - 150	6	200	7032137		03/13/07 12:46
1,1,1-Trichloroethane		20.4		ug/L	20.0	102%	52 - 162	4	200	7032137		03/13/07 12:46
Trichloroethene		22.0		ug/L	20.0	110%	71 - 157	2	200	7032137		03/13/07 12:46
Trichlorofluoromethane		21.0		ug/L	20.0	105%	17 - 181	1	200	7032137		03/13/07 12:46
Vinyl chloride		19.0		ug/L	20.0	95%	10 - 251	3	200	7032137		03/13/07 12:46
Xylenes, total		57.8		ug/L	60.0	96%	83 - 130	6	200	7032137		03/13/07 12:46
Surrogate: 1,2-Dichloroethane-d4		27.4		ug/L	30.0	91%	62 - 142			7032137		03/13/07 12:46
Surrogate: Dibromofluoromethane		30.4		ug/L	30.0	101%	78 - 123			7032137		03/13/07 12:46
Surrogate: Toluene-d8		28.5		ug/L	30.0	95%	79 - 120			7032137		03/13/07 12:46
Surrogate: 4-Bromofluorobenzene		28.8		ug/L	30.0	96%	75 - 133			7032137		03/13/07 12:46

Acid and Base/Neutral Extractables by EPA Method 625

7031808-BSD1

Butyl benzyl phthalate		35.2	R7	ug/L	50.0	70%	10 - 152	50	38	7031808		03/15/07 14:13
4-Chloro-3-methylphenol		24.8	R7	ug/L	50.0	50%	22 - 147	56	50	7031808		03/15/07 14:13
2-Chlorophenol		23.6	R7	ug/L	50.0	47%	23 - 134	58	41	7031808		03/15/07 14:13
Di-n-butyl phthalate		29.6	R7	ug/L	50.0	59%	10 - 118	57	36	7031808		03/15/07 14:13
2,4-Dichlorophenol		25.6	R7	ug/L	50.0	51%	39 - 135	62	50	7031808		03/15/07 14:13
Diethyl phthalate		26.7	R7	ug/L	50.0	53%	10 - 114	56	36	7031808		03/15/07 14:13
2,4-Dimethylphenol		22.2		ug/L	50.0	44%	32 - 119	20	50	7031808		03/15/07 14:13
Dimethyl phthalate		28.6	R7	ug/L	50.0	57%	10 - 112	57	36	7031808		03/15/07 14:13
4,6-Dinitro-2-methylphenol		28.8	R7	ug/L	50.0	58%	10 - 181	61	38	7031808		03/15/07 14:13
2,4-Dinitrophenol		27.3	R7	ug/L	50.0	55%	10 - 191	65	50	7031808		03/15/07 14:13
Di-n-octyl phthalate		33.0	R7	ug/L	50.0	66%	10 - 146	55	41	7031808		03/15/07 14:13
Bis(2-ethylhexyl)phthalate		30.2	R7	ug/L	50.0	60%	10 - 158	56	38	7031808		03/15/07 14:13
2-Nitrophenol		24.3	R7	ug/L	50.0	49%	29 - 182	63	39	7031808		03/15/07 14:13
4-Nitrophenol		12.4	R7	ug/L	50.0	25%	10 - 132	67	50	7031808		03/15/07 14:13

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 Project Name: SC - 1580 Stoughton - RGP Sampling
 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Acid and Base/Neutral Extractables by EPA Method 625												
7031808-BSD1												
Pentachlorophenol		39.2	R7	ug/L	50.0	78%	14 - 176	52	40	7031808		03/15/07 14:13
2,4,6-Trichlorophenol		29.1	R7	ug/L	50.0	58%	37 - 144	58	50	7031808		03/15/07 14:13
Surrogate: Terphenyl-d14		36.4		ug/L	50.2	73%	32 - 151			7031808		03/15/07 14:13
Surrogate: 2,4,6-Tribromophenol		33.7		ug/L	50.2	67%	26 - 148			7031808		03/15/07 14:13
Surrogate: Phenol-d5		10.5		ug/L	50.2	21%	10 - 94			7031808		03/15/07 14:13
Surrogate: 2-Fluorobiphenyl		25.9		ug/L	50.2	52%	23 - 130			7031808		03/15/07 14:13
Surrogate: 2-Fluorophenol		16.2		ug/L	50.2	32%	10 - 97			7031808		03/15/07 14:13
Surrogate: Nitrobenzene-d5		24.8		ug/L	50.2	49%	38 - 136			7031808		03/15/07 14:13
Chlorinated Herbicides by EPA Method 8151A												
7031864-BSD1												
Pentachlorophenol		5.48		ug/L	5.00	110%	26 - 131	6	50	7031864		03/12/07 21:30
Surrogate: Dichloroacetic Acid		5.18		ug/L	5.00	104%	32 - 155			7031864		03/12/07 21:30

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PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
7031834-MS1										
Chromium (VI)	ND	0.101		ug/mL	0.100	101%	83 - 116	7031834	NQC1199-01	03/09/07 23:30
7032188-MS1										
Cyanide	0.0355	0.1227		ug/mL	0.100	87%	72 - 121	7032188	NQC0837-01	03/14/07 11:30
7032430-MS2										
Silica Gel Treated HEM (SGT-HEM)	0.842	22.2		mg/L	20.0	107%	64 - 132	7032430	NQC0215-01	03/14/07 14:41
Total Metals by EPA Method 200.7										
7032037-MS1										
Antimony	ND	0.0944		mg/L	0.100	94%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Arsenic	ND	0.0519		mg/L	0.0500	104%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Cadmium	0.00110	0.0540		mg/L	0.0500	106%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Chromium	0.00360	0.212		mg/L	0.200	104%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Copper	0.00500	0.262		mg/L	0.250	103%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Iron	0.182	1.18		mg/L	1.00	100%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Lead	ND	0.0474		mg/L	0.0500	95%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Nickel	0.00390	0.518		mg/L	0.500	103%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Selenium	ND	0.0585		mg/L	0.0500	117%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Silver	ND	0.0554		mg/L	0.0500	111%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Zinc	0.0531	0.578		mg/L	0.500	105%	70 - 130	7032037	NQC1026-01	03/12/07 16:17
Mercury by EPA 245.1										
7032065-MS1										
Mercury	ND	0.00110		mg/L	0.00100	110%	70 - 130	7032065	NQC1020-01	03/13/07 11:58

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 Project Number: SAP 100074 / EQ 808
 Received: 03/09/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
7031834-MSD1												
Chromium (VI)	ND	0.0977		ug/mL	0.100	98%	83 - 116	3	10	7031834	NQC1199-01	03/09/07 23:30
7032188-MSD1												
Cyanide	0.0355	0.1120		ug/mL	0.100	76%	72 - 121	9	29	7032188	NQC0837-01	03/14/07 11:30
Total Metals by EPA Method 200.7												
7032037-MSD1												
Antimony	ND	0.0936		mg/L	0.100	94%	70 - 130	0.9	20	7032037	NQC1026-01	03/12/07 16:22
Arsenic	ND	0.0518		mg/L	0.0500	104%	70 - 130	0.2	20	7032037	NQC1026-01	03/12/07 16:22
Cadmium	0.00110	0.0532		mg/L	0.0500	104%	70 - 130	1	20	7032037	NQC1026-01	03/12/07 16:22
Chromium	0.00360	0.209		mg/L	0.200	103%	70 - 130	1	20	7032037	NQC1026-01	03/12/07 16:22
Copper	0.00500	0.259		mg/L	0.250	102%	70 - 130	1	20	7032037	NQC1026-01	03/12/07 16:22
Iron	0.182	1.18		mg/L	1.00	100%	70 - 130	0	20	7032037	NQC1026-01	03/12/07 16:22
Lead	ND	0.0477		mg/L	0.0500	95%	70 - 130	0.6	20	7032037	NQC1026-01	03/12/07 16:22
Nickel	0.00390	0.511		mg/L	0.500	101%	70 - 130	1	20	7032037	NQC1026-01	03/12/07 16:22
Selenium	ND	0.0552		mg/L	0.0500	110%	70 - 130	6	20	7032037	NQC1026-01	03/12/07 16:22
Silver	ND	0.0542		mg/L	0.0500	108%	70 - 130	2	20	7032037	NQC1026-01	03/12/07 16:22
Zinc	0.0531	0.570		mg/L	0.500	103%	70 - 130	1	20	7032037	NQC1026-01	03/12/07 16:22
Mercury by EPA 245.1												
7032065-MSD1												
Mercury	ND	0.00111		mg/L	0.00100	111%	70 - 130	0.9	20	7032065	NQC1020-01	03/13/07 12:00

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DATA QUALIFIERS AND DEFINITIONS

- H3** Sample was received and analyzed past holding time.
- HTI** The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.
- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- R1** The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the higher value was reported.
- R7** LCS/LCSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ND** Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: TestAmerica Analytical Testing Corp.

Project #: SAP 100074 / EQ 808

Project Location: SC - 1580 Stoughton - RGP Sampl City: Stoughton

MADEP RTN:

This Form provides certifications for the following data set: Lab SDG # NQC1199

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other
MCP SW-846 8260B 8151A 8330 6010B 7470A/1A
Methods Used 8270C 8081A VPH 6020 9014M
 8082 8021B EPH 7000 S Other

An affirmative response to questions A, B, and C is required for "Presumptive Certainty" Status

- A. Were all samples received by the laboratory in a condition consistent with that described on the chain-of-custody documentation for the data set? Yes No
B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? Yes No
C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2 0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes No
D. VPH and EPH methods only: Was the EPH or VPH method run without significant modifications, as specified in section 11 3? Yes No N/A 3/16/07

A response to questions E and F below is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified methods achieved? Yes No
F. Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes No

All No answers must be addressed in an attached Laboratory Case Narrative

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

Signature: [Signature] Position: Project Manager
Printed Name: Cecil A. Page Date: 3-16-07

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Sample NonConformance/COC Revision Form

Initiated by: Sgambill Phone: (413) 253-2100 NC Closed
Client Name: Sovereign Consulti Sample Range: Date Closed 3/9/2007
Client Contact: Eric Simpson SDG: NQC1199
Client Account: 13748 Analyst: 249
Date Created: 3/9/2007 Supervisor: Paul Buckingham
NC #: NC Type: NC Analytical 1
Project Name: 1580 Stoughton RGP Sa Terminal Manager:
Project Number:
Project Origin MA
Regulatory :

Process: Out of Holding Time-List Analysis

Corrected By: Mark Hollingsworth

Action: Client Notified

Closed: mhollingsworth

Comments: Comment added by: Sgambill on 3/9/2007 10:32:26 AM
NC closed with out comments

Comment added by: mhollingsworth on 3/9/2007 10:32:06 AM
Notified Eric Simpson today via phone He okayed us to proceed out of holding time

Comment added by: mhollingsworth on 3/9/2007 10:31:24 AM
Proceed with test out of holding time

Hexachrome received out of hold



SHELL RUSH ANALYSIS PRE-SCHEDULED FORM

Note: A minimum of 24-hour notice is required for pre-approval

Date Requested: March 8, 2007
Company Name: Sovereign Consulting Inc
Contact: Neil Schofield
Shell Site Name: EQ 808 - Stoughton 1580
Shell SAP Number: 100074
Shell Incident/P.O. Number: 97241358

Date samples should be delivered to laboratory? Pick-Up on March 8, 2007

Turnaround Time (TAT) requested for RUSH: (please check one)
 24-HOUR 2 DAYS
 3 DAYS 5 DAYS
 RESULTS NEEDED ON WEEKEND

Deliverables: LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

Number of Samples	Matrix	Analysis (please include method number)
JBMW-1	GW	Total Suspended Solids 160.2 Oil & Grease[Silica Gel Treated] EPA 1664 MA CAM MET Water Iron Total EPA 6010B Cyanide, total EPA 335 4 Copper Total EPA 6010B Chromium, Hexavalent by EPA 7196A Chlorine Total Residual by Spec. 330 5 8270C SIM PAH MADEP List 8270C MADEP SVOC List 8151A Single PCP 625 Semivolatile 624 Volatiles 608 PCBs 504.1 EDB only

Laboratory Approval:
Signature _____ Date _____

1. Samples must be submitted to the laboratory performing the analysis by 12 noon to be processed the same business day. Turnaround begins when the analyzing laboratory logs in the samples.
2. Preapproval is contingent upon routine working conditions and good instrument performance.
3. If courier service is needed, please contact your local service center contact or Project Manager for scheduling. This will be performed separately from this request.
4. Please include this form with your Chain-of-Custody (COC) papers.



Paul Buckingham

From: Mark Hollingsworth
Sent: Friday, March 09, 2007 7:58 AM
To: Nashville-login
Subject: 1580 Stoughton Project

There will be a 1580 Stoughton Rush project coming in today...the parameters have changed some, so please let me know before you tag it... the project is correct in Element (Sovereign Consulting – Mansfield) – 1580 Stoughton RGP Sampling is the project name in Element. Please call me at 1255 before you tag these . they should be for 5-day TAT.

Mark D. Hollingsworth
TestAmerica ATC - Nashville Division
Program Manager
Phone: 615-301-5044
Cell: 615-957-0860

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Nashville Division
COOLER RECEIPT FORM

NQC1199

BC#

Cooler Received/Opened On: 3/9/2007 @ 7:50

Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 2362

Fed-Ex

2. Temperature of representative sample or temperature blank when opened: 1.0 Degrees Celsius
(indicate IR Gun ID#)

92171982

3. Were custody seals on outside of cooler? YES NO NA
a. If yes, how many and where: 1 Front

4. Were the seals intact, signed, and dated correctly? YES NO NA

5. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-5 (initial)

6. Were custody seals on containers: YES NO and Intact YES NO NA
were these signed, and dated correctly? YES NO NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
 Plastic bag Paper Other None

8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

9. Did all containers arrive in good condition (unbroken)? YES NO NA

10. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

11. Did all container labels and tags agree with custody papers? YES NO NA

12. a. Were VOA vials received? YES NO NA

b. Was there any observable head space present in any VOA vial? YES NO NA

I certify that I unloaded the cooler and answered questions 6-12 (initial)

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used? YES NO NA

If preservation in-house was needed, record standard ID of preservative used here _____

14. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)

15. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

16. Did you sign the custody papers in the appropriate place? YES NO NA

17. Were correct containers used for the analysis requested? YES NO NA

18. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # 42022

Nashville Division
COOLER RECEIPT FORM

BC#

Cooler Received/Opened On: 3/9/2007 @ 7:50

Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 2351

Fed-Ex

2. Temperature of representative sample or temperature blank when opened: 3.6 Degrees Celsius
(indicate IR Gun ID#)

92171982

3. Were custody seals on outside of cooler? YES NO NA

a. If yes, how many and where: 1 front

4. Were the seals intact, signed, and dated correctly? YES NO NA

5. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-5 (initial) _____

6. Were custody seals on containers: YES NO and Intact YES NO NA

were these signed, and dated correctly? YES NO NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert

Plastic bag Paper Other _____ None

8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

9. Did all containers arrive in good condition (unbroken)? YES NO NA

10. Were all container labels complete (#, date, signed, pres , etc)? YES NO NA

11. Did all container labels and tags agree with custody papers? YES NO NA

12. a. Were VOA vials received? YES NO NA

b. Was there any observable head space present in any VOA vial? YES NO NA

I certify that I unloaded the cooler and answered questions 6-12 (initial) _____

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

If preservation in-house was needed, record standard ID of preservative used here _____

14. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial) _____

15. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

16. Did you sign the custody papers in the appropriate place? YES NO NA

17. Were correct containers used for the analysis requested? YES NO NA

18. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (initial) _____

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # _____

APPENDIX E

DILUTION FACTOR CALCULATION WORKSHEET
NPDES REMEDIATION GENERAL PERMIT - NOTICE OF INTENT FORM

Site: Former Texaco-Branded Service Station
Address: 1580 Turnpike Street, Stoughton, Norfolk County, MA
Receiving Stream: Unnamed Pond to Bear Swamp to Three Swamp Brook (7Q10 data unavailable)
USGS Station Number 01105270 streamflow statistic available (7Q10)

Qd = 10 = Maximum flow rate of the discharge (gpm)

Qd = 0.0223 = Maximum flow rate of the discharge in cubic feet per second (cfs), 1.0 gpm = 0.00223 cfs

Qs = 0.7 = Receiving water 7Q10 flow (cfs) where,

7Q10 = The minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

$$DF = (Qd + Qs) / Qd$$

DF = Dilution Factor = 32.390135

NOTE
Source:

7Q10 value taken from the stream flow statistic report on the Massapoag Brook in Canton, MA at USGS station 01105270.



Streamflow Statistics Report

USGS Station Number 01105270

Station Name MASSAPOAG BROOK AT CANTON, MA

[Click here to link to available data on NWIS-Web for this site.](#)

Descriptive Information

Station Type	Low Flow, partial record
Regulated?	False
Period of Record	NR
Remarks	None
Latitude (degrees NAD83)	42.1495436
Longitude (degrees NAD83)	-71.14949528
Hydrologic unit code	01090001
Local Basin	19-Boston Harbor
County	021-Norfolk
MCD	11315-Canton town
Directions to station	NR

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Area_of_Coarse_Stratified_Drift	2.04	square miles	15
Area_of_Lakes_and_Ponds	0.72	square miles	15
Area_of_Wetlands	0.73	square miles	15
Drainage_Area	10.37	square miles	15
Maximum_Basin_Elevation	241	feet	15
Mean_Basin_Elevation	284	feet	15
Mean_Basin_Slope_ft_per_mi	2.5	dimensionless	30

Minimum_Basin_Elevation	104	feet	15
Total_Stream_Length	29.42	miles	15
Mean_Basin_Slope_from_250K_DEM	2.5	percent	15

Streamflow Statistics

Statistic Name	Value	Units	Citation Number
Low-Flow Statistics			
7_Day_10_Year_Low_Flow	0.7	cubic feet per second	15
7_Day_2_Year_Low_Flow	0.24	cubic feet per second	15
Stand._Er._of_7_Day_10_Year_Min	30.3	percent	15
Stand._Er._of_7_Day_2_Year_Min	54	percent	15
Flow-Duration Statistics			
50_Percent_Duration	8.28	cubic feet per second	15
55_Percent_Duration	6.78	cubic feet per second	15
60_Percent_Duration	5.49	cubic feet per second	15
65_Percent_Duration	4.37	cubic feet per second	15
70_Percent_Duration	3.5	cubic feet per second	15
75_Percent_Duration	2.87	cubic feet per second	15
80_Percent_Duration	2.43	cubic feet per second	15
85_Percent_Duration	1.89	cubic feet per second	15
90_Percent_Duration	1.3	cubic feet per second	15
93_Percent_Duration	0.95	cubic feet per second	15
95_Percent_Duration	0.73	cubic feet per second	15
97_Percent_Duration	0.54	cubic feet per second	15
98_Percent_Duration	0.44	cubic feet per second	15
99_Percent_Duration	0.32	dimensionless	15
Stand._Er._of_50_Percent_Duration	24.2	percent	15
Stand._Er._of_55_Percent_Duration	20.8	percent	15
Stand._Er._of_60_Percent_Duration	17.6	percent	15
Stand._Er._of_65_Percent_Duration	14.7	percent	15
Stand._Er._of_70_Percent_Duration	12.8	percent	15
Stand._Er._of_75_Percent_Duration	12.5	percent	15
Stand._Er._of_80_Percent_Duration	13.3	percent	15
Stand._Er._of_85_Percent_Duration	15.3	percent	15
Stand._Er._of_90_Percent_Duration	20	percent	15
Stand._Er._of_93_Percent_Duration	25.1	percent	15
Stand._Er._of_95_Percent_Duration	29.6	percent	15

Stand._Er._of_97_Percent_Duration	35.5	percent	15
Stand._Er._of_98_Percent_Duration	39.9	percent	15
Stand._Er._of_99_Percent_Duration	46.5	percent	15
Monthly Flow Statistics			
August_Median_Flow	2.1	cubic feet per second	15
Stand._Er._of_Median_August_Flow	14.5	percent	15

Citations

Citation Number	Citation Name
15	Ries, K.G., III, 1999, Streamflow measurements, basin characteristics, and streamflow statistics for low-flow partial-record stations operated in Massachusetts from 1989 through 1996: U.S. Geological Survey Water Resources Investigations Report 99-4006, 162 p.
30	Imported from NWIS file
