



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCSolutions.com

TRC Project Number: 115058

September 30, 2009

Massachusetts Department of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, Massachusetts 02347

RE: Immediate Response Action Plan (IRA) Status Report and Imminent Hazard Evaluation – PCB Contaminated Wetland Sediments
Wetland to Rear of Keith Middle School
225 Hathaway Boulevard, New Bedford, Massachusetts
Release Tracking Number (RTN) 4-21300

To Whom It May Concern:

Consistent with the requirements of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000), specifically 310 CMR 40.0425, attached please find an Immediate Response Action (IRA) Status Report for the above-referenced IRA condition in New Bedford, Massachusetts.

If you have any questions concerning the IRA Status Report or transmittal forms, please do not hesitate to contact me at 978-656-3565 or via e-mail at dsullivan@trcsolutions.com.

Sincerely,

David M. Sullivan, LSP, CHMM
Senior Project Manager

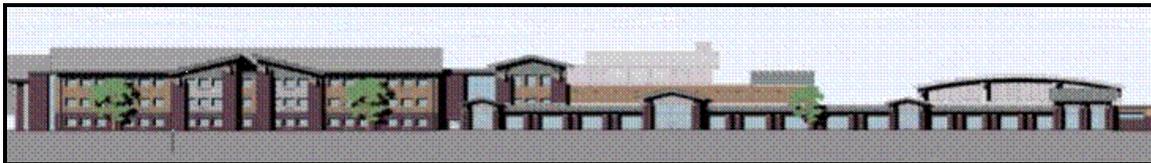
Attachment

cc. D. Fredette, S. Alfonse; Department of Environmental Stewardship
M. Cote, G. Martin; MassDEP Southeast Regional Office

IMMEDIATE RESPONSE ACTION STATUS REPORT

PCB Contaminated Wetland Sediments

Release Tracking Number (RTN) 4-21300
Wetland to Rear of Keith Middle School
225 Hathaway Boulevard
New Bedford, Massachusetts



Prepared for:

Department of Environmental Stewardship

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Prepared by:

TRC Environmental Corporation

Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 970-5600

September 2009

TABLE OF CONTENTS

I.	BACKGROUND	1
(a)	Iterative Sediment Sampling	2
(b)	Delineation and Potential Source Sampling.....	9
(c)	Ecological Risk Characterization Related Sampling	13
(d)	Fencing as an IH Mitigation Measure	14
II.	IMMEDIATE RESPONSE ACTION STATUS REPORT (310 CMR 40.0425)	16
(a)	The Status of Assessment and/or Remedial Actions.....	16
(b)	New Site Information and Data.....	20
(c)	Mass DEP-Required Information.....	28
(d)	LSP Opinion.....	28
III.	REFERENCES.....	29

TABLES

Table 1	Summary of Analytical Results for Wetland Sediments and Soil Samples – 2007 through 2008
Table 2	Summary of Analytical Results for Wetland Sediments and Soil Samples – 2009
Table 3	Summary of Analytical Results for Summit Street Right-of-Way Sediment and Soil Samples - 2009
Table 4	Summary of Analytical Results for Ecological Risk Characterization Sediment Samples
Table 5	Summary of Analytical Results for Ecological Risk Characterization Surface Water Samples
Table 6	Summary of Analytical Results for Ecological Risk Characterization Surface Soil Samples
Table 7	Summary of Analytical Results for Fenceline Soil Samples – Durfee Street Properties

FIGURES

Figure 1	Site Location Map
Figure 2	Sampling Location Plan – TRC 2007 and 2008 Locations
Figure 3	Analytical Results Summary Map – Southern Portion of Wetland TRC Data
Figure 4	Analytical Results Summary Map – Northern Portion of Wetland TRC Data
Figure 5	Analytical Results Summary Map – Summit Street Right-of-Way Portion of Wetland TRC Data
Figure 6	Ecological Risk Characterization and Near Surface Stratification Sample Locations
Figure 7	Supplemental Sampling Locations
Figure 8	Proposed Wetland Fence Plan

APPENDICES

- Appendix A TRC Correspondence with EPA Regarding PCB Delineation Sampling
- Appendix B TRC Correspondence with EPA Regarding Environmental Risk Characterization and Associated Sampling
- Appendix C Calculated Guidelines for Proposed Fencing
- Appendix D Soil Boring Logs

Immediate Response Action Status Report

PCB Contaminated Wetland Sediments

Wetland to Rear of Keith Middle School
225 Hathaway Boulevard
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-21300

TRC Project Number: 115058

September 30, 2009

TRC Environmental Corporation (TRC) is submitting this Immediate Response Action Status Report (IRA Status Report) to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City). This IRA Status Report addresses the detection of polychlorinated biphenyl (PCB) contamination in shallow wetland sediment located adjacent to the Keith Middle School (the "Site") in excess of a concentration indicating a condition that could pose an Imminent Hazard (IH) as defined in the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) in accordance with 310 CMR 40.0321(2)(b). The potential IH condition is associated with the sample's concentration, depth below surface, proximity to a school or residential dwelling, and accessibility. The potential IH condition triggered a 2-hour regulatory reporting obligation to the MassDEP in accordance with 310 CMR 40.0321(2) and 310 CMR 40.0311(7), and was reported to MassDEP via telephone on June 9, 2008. MassDEP orally approved IRA assessment activities and assigned Release Tracking Number (RTN) 4-21300.

This IRA Status Report is organized as follows: Section I (Background) briefly summarizes information on TRC's involvement with the Site, the circumstances of the release, the initial response actions conducted at the Site under MassDEP oral approval, and the objectives of this IRA Status Report. Section II (IRA Status Report) provides the information required for an IRA Status Report under the MCP, specifically 310 CMR 40.0425. Section III (References) lists information sources relied upon in the preparation of this IRA Status Report. Appendix A contains recent correspondence with the United States Environmental Protection Agency (EPA) concerning PCB contamination delineation and Appendix B contains correspondence with the EPA concerning Environmental Risk Characterization and associated sampling. Appendix C contains supporting human health risk calculations for fencing. Appendix D contains soil boring logs associated with recent drilling activities.

I. BACKGROUND

Under the direction of a prior consultant (BETA Group, Incorporated [BETA]) and following the approval by the EPA of the Risk-Based Wetland Cleanup Request (BETA, 2005), the remedy for the PCB-contaminated wetland sediments at the McCoy Field/Keith Middle School Site (RTN 4-15685) included the removal of up to 6 inches of impacted sediments with residual PCB

concentrations greater than 1 mg/kg at locations within the Site wetlands. The 1 mg/kg total PCB EPA cleanup level approved for the wetland (and other site-related remedial activities) was contingent, in part, upon the preparation and implementation of a Long-Term Monitoring and Maintenance Implementation Plan (LTMMIP) describing the activities that will be conducted for the monitoring and maintenance of the remedy (BETA, 2006a).

(a) Iterative Sediment Sampling

In accordance with provisions for wetland sediment monitoring at the KMS wetland site as set forth in the BETA-prepared and EPA-approved LTMMIP (dated October 20, 2006), TRC performed sampling of sediment in the wetland to the rear of the KMS Site located at 225 Hathaway Boulevard in New Bedford, Massachusetts (see Figure 1).

A TRC field scientist conducted the LTMMIP-required sediment sampling on May 27, 2008. For the annual sediment monitoring, the LTMMIP requires the collection of four randomly selected samples from locations abutting the slope consistent with the sediment sampling protocol in Appendix G of the LTMMIP. TRC used the 44 numbered wetland flag locations documented along the wetland/embankment edge on the December 11, 2006 As-Built Plan of Land prepared on behalf of BETA by Land Planning, Incorporated (Land Planning), of Hanson Massachusetts from the BETA-prepared December 2006 *Final Completion and Inspection Report* as approximate sampling station location identifiers for the random sample selection process (BETA, 2006b).

TRC randomly selected three of the four locations for sampling. TRC departed from the LTMMIP by collecting one of the four sediment samples from a biased sample location at the bottom of the slope beneath the KMS Site cap slope failure along the southern half of the wetland. The biased sample was collected to check on the potential for a contaminant release associated with the 2007 slope failure¹. Samples were collected using a hand auger and were collected from a depth of 0 to 6 inches below the top of the sediment surface. Samples were analyzed for PCB Aroclors via SW-846 Method 8082. The sampling locations, as well as all locations sampled between November 2007 and December 2008, are illustrated on Figure 2 and the samples were designated as follows (with approximate wetland flag or biased sample locations shown in parentheses):

- SD-01 (Biased sample from toe of slope below slope failure – collected in duplicate)
- SD-02 (Wetland Flag W-8)
- SD-03 (Wetland Flag W-19)
- SD-04-PRE (Wetland Flag W-38)

¹ In the spring of 2007, a slope failure occurred on the steep slope above the wetland near the southwestern corner of the Site. The area measured approximately 7 feet by 8 feet where the topsoil has slumped to the bottom of the slope. The black separation fabric that demarcates the underlying contaminated fill from the clean imported fill was not exposed; however, a small (approximately 3 to 4 inch) piece of the orange warning layer was visible in the top left quadrant of the damaged area (when viewed from the wetland). TRC oversaw final repair of the failed slope on October 30, 2008. The repair consisted of lining the damaged area with an 8-ounce non-woven geotextile fabric and covering the fabric with stone (rip-rap) up to local grade to restore the protective cap thickness and allow flow of storm water through the slope in this area without pressure buildup. The rip-rap is intended to allow free drainage of water and be more resistant to the erosive force of storm water overland run off.

TRC received the preliminary results of analysis on June 9, 2008. Three (3) out of four (4) samples were non-detect (see Table 1). Sediment sample SD-03 contained total PCBs at a concentration of 16.56 milligrams per kilogram (mg/kg).

The 16.56 mg/kg total PCB concentration exceeds a 10 mg/kg total PCB concentration under the MCP that could pose an IH in accordance with 310 CMR 40.0321(2)(b) due to the sample's concentration, depth below ground surface, proximity to a school or residential dwelling, and accessibility. The potential IH condition triggered a 2-hour regulatory reporting obligation to MassDEP in accordance with 310 CMR 40.0321(2) and 310 CMR 40.0311(7). TRC immediately consulted with the laboratory (Northeast Analytical, Incorporated [NEA] of Schenectady, New York) to confirm the validity of the result. Robert Wagner, NEA's laboratory director, reviewed the work conducted by the laboratory and confirmed the result. TRC notified the City's Department of Environmental Stewardship and facilitated regulatory reporting of the potential IH condition to MassDEP via telephone within the regulatory reporting timeframe at approximately 3:15 P.M. on Monday June 9, 2008. MassDEP orally approved an "assessment only" Immediate Response Action and assigned Release Tracking Number 4-21300.

Further assessment initially implemented by TRC consisted of the following:

- Re-extraction and re-analysis of sample SD-03 by the laboratory to verify the original result.
- Collection of six (6) additional sediment samples on June 10, 2008, which were submitted to the laboratory for analysis on a rush turn-around basis to verify the original result and to help evaluate the extent of contamination.

The six (6) additional samples were collected as follows:

- SD-3R – A repeat sample from the approximate location of SD-03 (sediment). It should be noted that a second SD-3R location was sampled on August 19, 2008 which, as detailed later in this section, is unrelated to the SD-3R location sampled on June 10, 2008 and discussed here.
- SD-3-1.5 – A sample collected at a depth of 1.5 feet at SD-3R/SD-03 (sediment).
- SD-3A – A sample collected 5 feet to the north of SD-03 (sediment).
- SD-3B – A sample collected 5 feet to the east of SD-03 (soil from the adjacent KMS cap).
- SD-3C – A sample collected 5 feet to the south of SD-03 (sediment).
- SD-3D – A sample collected 5 feet to the west of SD-03 (sediment).

All samples, with the exception of SD-3-1.5, were collected from a depth of 0 to 6 inches below the sediment or soil surface (sediment sample SD-3-1.5 was collected from a depth of 1.5 feet below surface). All sediment sample locations were under approximately 4 to 6 inches of water with the exception of SD-3C, which was wet, but not under water. Sample SD-3B is a soil sample collected from the adjacent KMS cap. As noted above, the SD-3R sample collected on June 10, 2008 was collected in duplicate for quality control (QC) purposes. This follow-up sampling was conducted consistent with the LTMMIP except that: 1) one additional sample (i.e., SD-3-1.5) was collected at the approximate location of sediment sample SD-03 at a depth of 1.5 feet below the sediment surface to evaluate the depth of contamination; and 2) a duplicate sample was collected from SD-3R (collected on June 10, 2008) for QC purposes.

The results of the analysis of the follow-up sediment and soil samples collected on June 10, 2008 are also presented in Table 1 and the locations are illustrated in Figure 2. The results indicate that a sediment sample collected 5 feet to the south of SD-03 (i.e., SD-3C) contained total PCBs at a concentration below the LTMMIP documented 1.0 mg/kg action level for PCBs in sediment. In addition, no PCBs were detected in cap soil sample SD-3B. However, the sediment samples collected 5 feet to the north and west of SD-03 (samples SD-3A and SD-3D, respectively) each contain total PCBs at concentrations greater than the 1.0 mg/kg action level set forth in the LTMMIP and at concentrations greater than the MassDEP 10 mg/kg potential IH reporting concentration under the MCP. Also, the analytical results from sediment sample SD-3-1.5 indicate that contamination is also present deeper than the 0 to 6 inch monitoring depth suggested by the LTMMIP and at a concentration greater than the LTMMIP 1.0 mg/kg action level.

Supplemental assessment sampling planned in coordination with the City's Department of Environmental Stewardship and performed by TRC on June 19, 2008 consisted of the collection of additional sediment samples at additional 5-foot to 10-foot increments to the north and west of previous samples SD-3A and SD-3D, respectively (see Figure 2), with the laboratory directed to analyze the first 5-foot increment and to keep remaining incremental sediment samples on hold pending the results of the first increment analyses. All sediment samples were collected at a depth of 0 to 6 inches below sediment surface. The following summarizes the June 19, 2008 sediment sampling:

- SD-3E – A sample collected 10 feet to the north of SD-03 (sediment).
- SD-3F – A sample collected 15 feet to the north of SD-03 (sediment).
- SD-3G – A sample collected 25 feet to the north of SD-03 (sediment).
- SD-3H – A sample collected 10 feet to the west of SD-03 (sediment).
- SD-3I – A sample collected 15 feet to the west of SD-03 (sediment).
- SD-3J – A sample collected 20 feet to the west of SD-03 (sediment). It should be noted that the SD-3J sample locations was collected 20 feet to the west of SD-03, rather than 25-feet to the west (consistent with the northern SD-3G step out location, to coincide with the approximate western edge of the original BETA sediment remedial excavation).

The results of the analysis of the next increment of sediment delineation sampling collected on June 19, 2008 are also presented in Table 1 and the locations are illustrated in Figure 2. The results indicate that all sediment samples collected on June 19, 2008 contain total PCBs at concentrations above the LTMMIP documented 1.0 mg/kg action level for PCBs in sediment. Two samples (SD-3F to the north and SD-3H to the west) also contain total PCBs at concentrations greater than the MassDEP 10 mg/kg potential IH reporting concentration under the MCP (no further IRA-related reporting is required since the contamination appears to be consistent with that reported to MassDEP on June 9, 2008). The results indicated that further sampling was required to delineate the extent of the PCB sediment contamination.

On behalf of the City, TRC submitted an IRA Plan to MassDEP on August 7, 2008. The IRA Plan included an IH Evaluation and outlined supplemental assessment sampling planned in coordination with the City's Department of Environmental Stewardship that consisted of the following:

- Evaluate the areal extent of shallow sediment (0 to 6 inches below the sediment surface) incrementally.
- Develop an efficient sampling plan to evaluate the depth of impacted sediment as the areal extent of PCB-impacted sediment is delineated.
- Adjust the incremental sampling plan as necessary based on sediment sampling results.

The results of TRC's June 19, 2008 sediment sampling indicated that the extent of PCB-contaminated sediments proximate to SD-03 had not yet been found to the north and west of SD-03. In order to complete goals of TRC's August 7, 2008 IRA Plan, TRC conducted several iterative rounds of sediment sampling based on laboratory analytical results that continued to indicate concentrations of PCBs above the LTMMIP action level. All sediment samples were submitted for laboratory analysis for PCB Aroclors via SW-846 Method 8082. The following summarizes the samples collected during each effort. All TRC sampling locations were marked with a pin flag in the field and later surveyed in by Land Planning. Analytical results are contained in Table 1 and the progression and location of sediment sampling are indicated on Figure 2. Figure 3 presents total PCB concentrations for each sampling location.

On July 30, 2008 TRC collected 12 additional sediment samples from six locations (SD-3K, 3L, 3M, 3N, 3P, and 3Q). The July 30, 2008 sediment samples included the following:

July 30, 2008 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Approximate Location
SD-3K-0-0.5	0-0.5	35 feet to the north of SD-03 (toe of slope)
SD-3K-1-1.5	1-1.5	35 feet to the north of SD-03 (toe of slope)
SD-3L-0-0.5	0-0.5	50 feet to the north of SD-03 (toe of slope)
SD-3L-1-1.5	1-1.5	50 feet to the north of SD-03 (toe of slope)
SD-3M-0-0.5	0-0.5	80 feet to the north of SD-03 (toe of slope)
SD-3M-1-1.5	1-1.5	80 feet to the north of SD-03 (toe of slope)
SD-3N-0-0.5	0-0.5	25 feet to the west of SD-03
SD-3N-1-1.5	1-1.5	25 feet to the west of SD-03
SD-3P-0-0.5	0-0.5	30 feet to the west of SD-03
SD-3P-0.7-1.2	0.7-1.2	30 feet to the west of SD-03
SD-3Q-0-0.5	0-0.5	40 feet to the west of SD-03
SD-3Q-0.8-1.3	0.8-1.3	40 feet to the west of SD-03

TRC's July 30, 2008 sampling indicated that PCB-contaminated sediments (i.e., above the EPA unrestricted use standard of 1 mg/kg) were bounded to the north by SD-3M. TRC collected 12 additional sediment samples from the wetland area to the northwest of SD-03 on August 19, 2008 to refine potential remedial volumes. Samples were collected from six locations, SD-3R through 3W, as summarized in the following table.

August 19, 2008 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Approximate Location
SD-3R-0-0.5	0-0.5	25 feet north of SD-03, 25 feet west
SD-3R-1-1.5	1-1.5	25 feet north of SD-03, 25 feet west
SD-3S-0-0.5	0-0.5	25 feet north of SD-03, 40 feet west
SD-3S-1-1.5	1-1.5	25 feet north of SD-03, 40 feet west
SD-3T-0-0.5	0-0.5	50 feet north of SD-03, 25 feet west
SD-3T-1-1.5	1-1.5	50 feet north of SD-03, 25 feet west
SD-3U-0-0.5	0-0.5	50 feet north of SD-03, 35 feet west
SD-3U-1-1.5	1-1.5	50 feet north of SD-03, 35 feet west
SD-3V-0-0.5	0-0.5	75 feet north of SD-03, 25 feet west
SD-3V-1-1.5	1-1.5	75 feet north of SD-03, 25 feet west
SD-3W-0-0.5	0-0.5	75 feet north of SD-03, 30 feet west
SD-3W-1-1.5	1-1.5	75 feet north of SD-03, 30 feet west

TRC's August 19, 2008 sampling results indicated that additional sampling was needed to assess lateral extent of PCB contamination in the wetlands and vertical extent in some locations (i.e., PCB contamination extended down to 1.5 in 3 locations). TRC collected 28 additional sediment samples on September 17 and 18, 2008. These samples included the following:

September 17 and 18, 2008 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Approximate Location
SD-04 (0-0.5)	0-0.5	40 feet north of SD-03, 55 feet west
SD-04 (1.5-2)	1.5-2	40 feet north of SD-03, 55 feet west
SD-04 (2-2.5)	2-2.5	40 feet north of SD-03, 55 feet west
SD-05 (0-0.5)	0-0.5	60 feet north of SD-03, 55 feet west
SD-05 (1.5-2)	1.5-2	60 feet north of SD-03, 55 feet west
SD-05 (2-2.5)	2-2.5	60 feet north of SD-03, 55 feet west
SD-06 (0-0.5)	0-0.5	105 feet north of SD-03 (toe of slope)
SD-06 (1-1.5)	1-1.5	105 feet north of SD-03 (toe of slope)
SD-06 (2.5-3)	2.5-3	105 feet north of SD-03 (toe of slope)
SD-07 (0-0.5)	0-0.5	100 feet north of SD-03, 35 feet west
SD-07 (1.5-2)	1.5-2	100 feet north of SD-03, 35 feet west
SD-07 (2.5-3)	2.5-3	100 feet north of SD-03, 35 feet west
SD-08 (0-0.5)	0-0.5	90 feet north of SD-03, 65 feet west
SD-08 (1.5-2)	1.5-2	90 feet north of SD-03, 65 feet west
SD-09 (0-0.5)	0-0.5	130 feet north of SD-03 (toe of slope)
SD-09 (1.5-2)	1.5-2	130 feet north of SD-03 (toe of slope)

September 17 and 18, 2008 KMS Wetland Sediment Sampling

Sample I. D.	Depth (feet)	Approximate Location
SD-09 (2.5-3)	2.5-3	130 feet north of SD-03 (toe of slope)
SD-10 (0-0.5)	0-0.5	125 feet north of SD-03, 40 feet west
SD-10 (1.5-2)	1.5-2	125 feet north of SD-03, 40 feet west
SD-10 (2.5-3)	2.5-3	125 feet north of SD-03, 40 feet west
SD-11 (0-0.5)	0-0.5	125 feet north of SD-03, 75 feet west
SD-11 (1.5-2)	1.5-2	125 feet north of SD-03, 75 feet west
SD-11 (2.5-3)	2.5-3	125 feet north of SD-03, 75 feet west
SD-12 (0-0.5)	0-0.5	55 feet west of SD-03
SD-12 (1.5-2)	1.5-2	55 feet west of SD-03
SD-3 (1.5-2)	1.5-2	At SD-03
SD-3K (2.5-3)	2.5-3	35 feet to the north of SD-3 (toe of slope)
SD-3V (2.5-3)	2.5-3	75 feet north of SD-03, 25 feet west

The above described sampling program improved the delineation of contamination to the west (all westernmost sample results were below 1 mg/kg, with a maximum of 0.984 mg/kg from SD-08-0-0.5, as shown on Figure 3). However, results to the north required further delineation, with two of the three northernmost sample points (SD-09-2.5-3 [2.09 mg/kg] and SD-10-0-0.5 [1.23 mg/kg]) containing total PCBs greater than 1 mg/kg.

TRC mobilized to the Site on October 3, 2008 to collect additional samples to the west to confirm the delineation boundary and to the north to attempt to locate the northern boundary of PCB contamination and to investigate the vertical extent of PCB contamination at SD-09. TRC collected 30 additional sediment samples on October 3 and 6, 2008. These samples included the following:

October 3 and 6, 2008 KMS Wetland Sediment Sampling

Sample I. D.	Depth (feet)	Approximate Location
SD-09A-2.5-3	2.5-3	130 feet north of SD-03 (toe of slope)
SD-13-0-0.5	0-0.5	150 feet north of SD-03 (toe of slope)
SD-13-1.5-2	1.5-2	150 feet north of SD-03 (toe of slope)
SD-13-2.5-3	2.5-3	150 feet north of SD-03 (toe of slope)
SD-14-0-0.5	0-0.5	145 feet north of SD-03, 50 feet west
SD-14-1.5-2	1.5-2	145 feet north of SD-03, 50 feet west
SD-14-2.5-3	2.5-3	145 feet north of SD-03, 50 feet west
SD-15-0-0.5	0-0.5	145 feet north of SD-03, 80 feet west
SD-15-1.5-2	1.5-2	145 feet north of SD-03, 80 feet west
SD-15-2.5-3	2.5-3	145 feet north of SD-03, 80 feet west
SD-16-0-0.5	0-0.5	170 feet north of SD-03 (toe of slope)

October 3 and 6, 2008 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Approximate Location
SD-16-1.5-2	1.5-2	170 feet north of SD-03 (toe of slope)
SD-16-2.5-3	2.5-3	170 feet north of SD-03 (toe of slope)
SD-17-0-0.5	0-0.5	170 feet north of SD-03, 65 feet west
SD-17-1.5-2	1.5-2	170 feet north of SD-03, 65 feet west
SD-17-2.5-3	2.5-3	170 feet north of SD-03, 65 feet west
SD-18-0-0.5	0-0.5	165 feet north of SD-03, 95 feet west
SD-18-1.5-2	1.5-2	165 feet north of SD-03, 95 feet west
SD-18-2.5-3	2.5-3	165 feet north of SD-03, 95 feet west
SD-19-0-0.5	0-0.5	200 feet north of SD-03 (toe of slope)
SD-19-1.5-2	1.5-2	200 feet north of SD-03 (toe of slope)
SD-19-2.5-3	2.5-3	200 feet north of SD-03 (toe of slope)
SD-20-0-0.5	0-0.5	195 feet north of SD-03, 70 feet west
SD-20-1.5-2	1.5-2	195 feet north of SD-03, 70 feet west
SD-20-2.5-3	2.5-3	195 feet north of SD-03, 70 feet west
SD-21-0-0.5	0-0.5	185 feet north of SD-03, 100 feet west
SD-21-1.5-2	1.5-2	185 feet north of SD-03, 100 feet west
SD-21-2.5-3	2.5-3	185 feet north of SD-03, 100 feet west
SD-22-0-0.5	0-0.5	120 feet north of SD-03, 100 feet west
SD-23-0-0.5	0-0.5	60 feet north of SD-03, 85 feet west

TRC's October 3 and 6, 2008 sampling program indicated that the northern extent of total PCB concentrations in excess of the EPA cleanup level had not yet been fully assessed.

TRC mobilized to the site to collect 36 additional sediment samples on October 22 and 23, 2008 in order to assess the extent of contamination in the vicinity of detected concentrations of total PCBs at SD-16-0-0.5 (4.872 mg/kg), SD-17-0-0.5 (1.55 mg/kg), SD-18-0-0.5 (1.38 mg/kg), SD-19-0-0.5 (2.69 mg/kg), and SD-21-0-0.5 (1.63 mg/kg). These samples included the following:

October 22 and 23, 2008 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Approximate Location
SD-13A-2.5-3	2.5-3	150 feet north of SD-03 (toe of slope)
SD-24-0-0.5	0-0.5	225 feet north of SD-03 (toe of slope)
SD-24-1.5-2	1.5-2	225 feet north of SD-03 (toe of slope)
SD-24-2.5-3	2.5-3	225 feet north of SD-03 (toe of slope)
SD-25-0-0.5	0-0.5	220 feet north of SD-03, 70 feet west
SD-25-1.5-2	1.5-2	220 feet north of SD-03, 70 feet west
SD-25-2.5-3	2.5-3	220 feet north of SD-03, 70 feet west

October 22 and 23, 2008 KMS Wetland Sediment Sampling

Sample I. D.	Depth (feet)	Approximate Location
SD-26-0-0.5	0-0.5	220 feet north of SD-03, 105 feet west
SD-26-1.5-2	1.5-2	220 feet north of SD-03, 105 feet west
SD-26-2.5-3	2.5-3	220 feet north of SD-03, 105 feet west
SD-27-0-0.5	0-0.5	250 feet north of SD-03 (toe of slope)
SD-27-1.5-2	1.5-2	250 feet north of SD-03 (toe of slope)
SD-27-2.5-3	2.5-3	250 feet north of SD-03 (toe of slope)
SD-28-0-0.5	0-0.5	235 feet north of SD-03, 105 feet west
SD-28-1.5-2	1.5-2	235 feet north of SD-03, 105 feet west
SD-28-2.5-3	2.5-3	235 feet north of SD-03, 105 feet west
SD-29-0-0.5	0-0.5	245 feet north of SD-03, 75 feet west
SD-29-1.5-2	1.5-2	245 feet north of SD-03, 75 feet west
SD-29-2.5-3	2.5-3	245 feet north of SD-03, 75 feet west
SD-30-0-0.5	0-0.5	275 feet north of SD-03 (toe of slope)
SD-30-1.5-2	1.5-2	275 feet north of SD-03 (toe of slope)
SD-30-2.5-3	2.5-3	275 feet north of SD-03 (toe of slope)
SD-31-0-0.5	0-0.5	270 feet north of SD-03, 90 feet west
SD-31-1.5-2	1.5-2	270 feet north of SD-03, 90 feet west
SD-31-2.5-3	2.5-3	270 feet north of SD-03, 90 feet west
SD-32-0-0.5	0-0.5	260 feet north of SD-03, 105 feet west
SD-32-1.5-2	1.5-2	260 feet north of SD-03, 105 feet west
SD-32-2.5-3	2.5-3	260 feet north of SD-03, 105 feet west
SD-33-0-0.5	0-0.5	340 feet north of SD-03 (toe of slope)
SD-33-1.5-2	1.5-2	340 feet north of SD-03 (toe of slope)
SD-33-2.5-3	2.5-3	340 feet north of SD-03 (toe of slope)
SD-34-0-0.5	0-0.5	295 feet north of SD-03 (toe of slope)
SD-34-1.5-2	1.5-2	295 feet north of SD-03 (toe of slope)
SD-34-2.5-3	2.5-3	295 feet north of SD-03 (toe of slope)
SD-35-0-0.5	0-0.5	160 feet north of SD-03, 115 feet west
SD-36-0-0.5	0-0.5	195 feet north of SD-03, 135 feet west

(b) Delineation and Potential Source Sampling

Following TRC's October 22 and 23, 2008 sampling program, TRC's Licensed Site Professional (LSP), in consultation with the City and EPA, re-evaluated the iterative approach to delineating PCB sediment contamination employed to date. TRC initially proposed the additional sampling approach to EPA via electronic mail on November 26, 2008 (see Appendix A). EPA approved TRC's approach, which included the sampling of other media to identify potential sources of PCB sediment contamination.

TRC mobilized to the Site on December 3, 2008 to collect 84 additional sediment samples, five (5) samples of material accumulated within stormwater drain pipes (SDR-01 through SDR-05), five (5) samples of soils immediately adjacent to the discharges of stormwater drain pipes (OF-1 through OF-5), and ten (10) soil samples from the slope adjacent to the wetland (SLP-01 through SLP-10). One stormwater drain pipe sample (i.e., OF-DS-1) was also collected on November 25, 2008. This stormwater drain sample was collected from the same pipe as the SDR-04 sample noted above. Sediment samples were collected north of previously-collected samples to assess the entire northern extent of the wetland and to the south of the land bridge at the request of EPA to improve characterization of sediment in this portion of the Site. Samples of soil from adjacent to the end of stormwater drain pipes, samples of accumulated materials within the stormwater drain pipes, and soil samples collected from the slope adjacent to the wetland were also collected to evaluate potential lines of evidence for sources of PCB sediment contamination. Samples collected during this sampling event included:

December 3-10, 2008 KMS Wetland-Related Sampling		
Sample I. D.	Depth (feet)	Description (see Figure 2)
SD-37-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-37-2-2.5	2-2.5	Sediment sample from the northern area of wetland
SD-38-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-38-2-2.5	2-2.5	Sediment sample from the northern area of wetland
SD-39-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-39-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-40-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-40-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-41-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-41-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-42-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-42-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-43-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-43-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-44-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-44-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-45-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-45-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-46-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-46-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-47-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-47-4-4.5	4-4.5	Sediment sample from the northern area of wetland
SD-48-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-48-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-49-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-49-2.5-3	2.5-3	Sediment sample from the northern area of wetland

December 3-10, 2008 KMS Wetland-Related Sampling

Sample I. D.	Depth (feet)	Description (see Figure 2)
D-50-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-50-3.5-4	3.5-4	Sediment sample from the northern area of wetland
SD-51-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-51-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-52-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-52-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-53-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-53-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-54-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-54-3.5-4	3.5-4	Sediment sample from the northern area of wetland
SD-55-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-55-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-56-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-56-3.5-4	3.5-4	Sediment sample from the northern area of wetland
SD-57-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-57-2-2.5	2-2.5	Sediment sample from the northern area of wetland
SD-58-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-58-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-59-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-59-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-60-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-60-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-61-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-61-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-62-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-62-1-1.5	1-1.5	Sediment sample from the northern area of wetland
SD-63-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-63-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-64-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-64-2-2.5	2-2.5	Sediment sample from the northern area of wetland
SD-65-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-65-1-1.5	1-1.5	Sediment sample from the northern area of wetland
SD-66-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-66-2-2.5	2-2.5	Sediment sample from the northern area of wetland
SD-67-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-67-2.5-3	2.5-3	Sediment sample from the northern area of wetland
SD-68-0-0.5	0-0.5	Sediment sample from the northern area of wetland

December 3-10, 2008 KMS Wetland-Related Sampling

Sample I. D.	Depth (feet)	Description (see Figure 2)
SD-68-4-4.5	4-4.5	Sediment sample from the northern area of wetland
SD-69-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-69-4-4.5	4-4.5	Sediment sample from the northern area of wetland
SD-70-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-70-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-71-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-71-3-3.5	3-3.5	Sediment sample from the northern area of wetland
SD-72-0-0.5	0-0.5	Sediment sample from the northern area of wetland
SD-72-1.5-2	1.5-2	Sediment sample from the northern area of wetland
SD-73-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-74-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-75-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-76-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-77-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-78-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-79-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-80-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-81-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-82-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-83-0-0.5	0-0.5	Sediment sample from the area south of land bridge
SD-84-0-0.5	0-0.5	Sediment sample from the area south of land bridge
OF-1	0-0.5	Sample collected of soil near outfall of storm drain
OF-2	0-0.5	Sample collected of soil near outfall of storm drain
OF-3	0-0.5	Sample collected of soil near outfall of storm drain
OF-4	0-0.5	Sample collected of soil near outfall of storm drain
OF-5	0-0.5	Sample collected of soil near outfall of storm drain
SLP-01	0-0.5	Soil sample from slope on the east side of wetland
SLP-02	0-0.5	Soil sample from slope on the east side of wetland
SLP-03	0-0.5	Soil sample from slope on the east side of wetland
SLP-04	0-0.5	Soil sample from slope on the east side of wetland
SLP-05	0-0.5	Soil sample from slope on the east side of wetland
SLP-06	0-0.5	Soil sample from slope on the east side of wetland
SLP-07	0-0.5	Soil sample from slope on the east side of wetland
SLP-08	0-0.5	Soil sample from slope on the east side of wetland
SLP-09	0-0.5	Soil sample from slope on the east side of wetland
SLP-10	0-0.5	Soil sample from slope on the east side of wetland
SDR-01	0-0.2	Sample of material accumulated in storm drain

December 3-10, 2008 KMS Wetland-Related Sampling		
Sample I. D.	Depth (feet)	Description (see Figure 2)
SDR-02	0-0.2	Sample of material accumulated in storm drain
SDR-03	0-0.2	Sample of material accumulated in storm drain
SDR-04	0-0.2	Sample of material accumulated in storm drain
SDR-05	0-0.2	Sample of material accumulated in storm drain
OF-DS-1	0-0.2	Sample of material accumulated in storm drain

Analytical results of samples collected in December 2008 indicate that concentrations of PCBs generally tended to be lower further north into the wetland, but also that total PCBs above the EPA cleanup level are present at various locations throughout the northern portion of the wetland (e.g., SD-34-0-0.5 [4.47 mg/kg], SD-40-0-0.5 [5.23 mg/kg], SD-42-0-0.5 [1.34 mg/kg], SD-45-0-0.5 [1.06 mg/kg], SD-48-0-0.5 [1.36 mg/kg], SD-50-0-0.5 [1.21 mg/kg], SD-58-0-0.5 [1.77 mg/kg], SD-59-0-0.5 [1.02 mg/kg], SD-57-0-0.5 [1.36 mg/kg], SD-70-1.5-2 [7.99 mg/kg], and SD-71-0-0.5 [1.15 mg/kg]). Sediment samples collected from the portion of the wetland south of the land bridge did not contain PCBs in excess of the EPA cleanup level. One of the outfall soil samples contained a concentration of total PCBs in excess 1 mg/kg (OF-05 [1.07 mg/kg]).

Table 1 summarizes analytical sampling results. Total PCB concentrations are also summarized on Figures 3 and 4 for the southern and northern wetland areas, respectively. As described above sample data collected to date indicate that PCB concentrations in wetland sediment samples in excess of the EPA cleanup level of 1 mg/kg are present in the wetland to the north of the land bridge. Samples collected to the south of the land bridge indicate that total PCB concentrations in this area are below 1 mg/kg. Samples of slope soils, soils adjacent to storm drain outfalls, and material accumulated in storm drain pipes do not indicate runoff from these areas as likely sources of PCB sediment contamination, although one soil sample at an outfall contained PCBs at a concentration of 1.07 mg/kg (OF-05).

(c) Ecological Risk Characterization Related Sampling

TRC proposed to EPA an approach to evaluating ecological risks within the KMS wetland consistent with the MCP Ecological Risk Characterization (ERC) guidance with the exception that Exposure Point Concentrations (EPCs) for receptor species will be represented by the 95-percent Upper Concentration Limit (UCL) of the arithmetic mean. Rick Sugat, an ecological risk specialist with EPA, concurred with the approach based on discussions with TRC's Ecological Risk Specialist, Scott Heim. The use of the 95-percent UCL was requested by EPA.

Based on a March 4, 2009 telephone discussion, EPA's PCB Coordinator (Kim Tisa) agreed to go forward with the ERC evaluation (see Appendix C), but requested that additional PCB sediment data (for Aroclors) be collected within 1.5 to 2 feet of each proposed location from 0 to 3 inches and 3 to 6 inches to supplement data proposed to be collected from 0 to 6 inches to evaluate near surface stratification. Details of the stratification sampling will be discussed in Section II below.

Upon approval, TRC immediately mobilized to the field to conduct the sampling program. However, at time of TRC's submittal of the previous IRA Status Report for the KMS wetlands dated April 3, 2009, only preliminary results from sediment sampling in support of the Stage I Environmental Screening (ES) and above referenced stratification sampling were available. This included six (6) sediment samples collected on March 6, 2009 by TRC with initial analytical results indicating that two of the samples (i.e., ERC-SED-11A [0-0.5 feet] and ERC-SED-11B [0-0.25 feet]) contained the highest concentrations of total PCBs detected in the wetland to date (434 mg/kg and 66.9 mg/kg, respectively). The samples were collected between SD-40 and SD-43, over 400 feet north of SD-03 (see Figures 4 and 6).

Also, as noted in the TRC's previous IRA Status Report, dated March 20, 2009, TRC collected seven (7) additional sediment samples (including one duplicate; ERC-SED-11A-BB) in the vicinity of the above-described high PCB results (see Figure 7). Initial results indicate additional sediment in the vicinity of SD-11A contain elevated concentrations of total PCBs (i.e., SED-11A-A [20.6 mg/kg], SED-11A-B [705 mg/kg], SED-11A-BB [805 mg/kg], SED-11A-D [838 mg/kg], and SED-11A-E [31.3 mg/kg]).

Because all of the data associated with sediment samples collected in support of the ERC, as well as the additional sampling noted above, had not undergone a full evaluation of the potential impacts of analytical results on IRA completion alternatives, these sample results were not included in the previous IRA Status Report. However, based on the results, it was determined that additional areas of the wetland were likely to require fencing to mitigate exposure to the potential IH condition and a more complete evaluation is presented in Section II of this report.

(d) Fencing as an IH Mitigation Measure

TRC has recommended that the City erect a fence to mitigate areas of PCB sediment contamination that present an IH in the vicinity of SB-03 near the land bridge, as well as potential additional areas of elevated PCB contamination within the northern portion of the wetland based on the results of ERC related sampling. The City is also evaluating potential mitigation options, including the cost for fencing the entire northern portion of the wetland until a permanent remedy can be implemented.

To advise the City on the minimum extent of wetland area requiring fencing, TRC performed an evaluation to identify a sediment total PCB concentration associated with risk and hazard below the IH thresholds (Excess Lifetime Cancer Risk [ELCR] of 1E-05 and Hazard Quotient [HQ] of 10). Sediments with total PCB concentrations and associated risk/hazard above the IH thresholds may be fenced while sediments with total PCB concentrations and associated risk/hazard less than the IH thresholds may be left outside the fence boundary. These guidelines would be used if the City opted to fence individual areas in excess of IH thresholds, rather than the entire northern area as is currently under discussion with the City.

In TRC's August 2008 IH evaluation (included with the August 2008 IRA Plan), a youth (age 8 to 13) was selected for evaluation. This age group conservatively represents school age children likely to be present at the middle school and younger children who may access the wetland from the residential areas located to the north and west. Because the wetland area is a wooded swamp,

characterized by the presence of standing water, young children (less than 8 years of age) are unlikely to be taken to this area by their parents or caretakers for recreational activities. However, children older than 8 years of age may be attracted to this area for wildlife exploration (e.g., catching frogs and bugs) as part of their recreational activities. Exposure pathways included in the 2008 IH evaluation were incidental ingestion of and dermal contact with sediment. Fugitive dust exposures were not evaluated because the sediments are covered with water and would not likely generate airborne dusts during recreational contact.

The exposure pathways and assumptions used for the August 2008 IH evaluation were used for the determination of a total PCB concentration associated with risk/hazard below the IH thresholds. Exposure assumptions applicable to the youth are provided on the risk calculation spreadsheets (see tables in Appendix C). Exposure assumptions presented are consistent with those used by MassDEP in the 2008 trespasser short-form, adjusted to be applicable to the 8 to 13 youth age group. A sediment adherence factor of 1 milligram per square centimeter (mg/cm^2) was used, consistent with MassDEP guidance. The exposure frequency of 2 days per week for 30 weeks is a conservative selection considering the partial fencing around and standing water within the PCB-impacted sediment area. The evaluation of a slightly younger youth than used by MassDEP for the trespasser short-form (i.e., an 11-16 year old) provides a more health-protective evaluation.

As shown on the tables provided in Appendix C, a total PCB concentration of 8 mg/kg results in a short-term (5 year) ELCR of $2\text{E}-06$ and a total receptor HQ of 1. The ELCR and HQ calculated are below the IH thresholds (ELCR of $1\text{E}-05$ and HQ of 10) and, therefore, the 8 mg/kg guideline eliminates the IH condition. The 8 mg/kg guideline would also be associated with a chronic risk of less than $1\text{E}-05$, even if exposures were to occur for longer than five years. Therefore, the fencing of sediments with total PCB concentrations greater than 8 mg/kg would be protective of an IH condition and a chronic risk level of concern. However, the 8 mg/kg guideline was intended for use to determine the extent of fencing required to mitigate the IH conditions, and not as a final sediment remediation guideline.

Additional detail on the installation of the fence is presented in Section II(b) below. Final fence installation details will be described in a future IRA Status or Completion Report.

II. IMMEDIATE RESPONSE ACTION STATUS REPORT (310 CMR 40.0425)

This IRA Status Report is organized according to the minimum information needs set forth under 310 CMR 40.0425(3)(a) through (e) of the MCP.

(a) The Status of Assessment and/or Remedial Actions

Following detection of elevated concentrations of total PCBs (i.e., greater than 1 mg/kg) in two sediment samples collected within the northwestern portion of the wetland in December 2008 (i.e., SD-70-1.5-2 [7.99 mg/kg] and SD-71-0-0.5 [1.15 mg/kg]), it was determined that further investigation was warranted along the western boundary of the wetland. In order to facilitate additional sampling, the exact limits of the City-owned right-of-way (ROW) extending from the intersection of Summit Street and Hapwell Street north to Durfee Street (hereafter referred to as the Summit Street ROW) needed to be determined. Land Planning was mobilized in June 2009 to survey the western boundary of the Summit Street ROW, including the corners of the bordering properties, based on current information from the City of New Bedford Assessor's Office (see Figure 5).

Following completion of the Summit Street ROW survey, a site-walk was conducted by representatives from TRC, the City, the City of New Bedford Conservation Commission (ConComm) and New England Geotech, LLC (New England Geotech; TRC's subcontractor for drilling services) of Jamestown, Rhode Island to determine an efficient sampling approach that would minimize disturbance of the wetland buffer zone/upland area. TRC submitted a scope of work to the City and ConComm for review on June 19, 2009. Approval was received on June 22, 2009 and TRC mobilized to the Site on June 24, 2009.

A total of ten (10) soil borings were advanced along the western boundary of the Summit Street ROW in order to assess the western extent of wetland-related contamination, as well as investigate the potential for former Parker Street Waste Site (PSWS) related impacted soil in the buffer zone and/or upland area bordering the northwestern portion of the wetland. TRC's environmental investigation consisted of direct push soil borings using a Geoprobe® 6620 DT tack-mounted drill rig to sample soil and observe subsurface soil conditions. In select locations (i.e., WSB-7 through WSB-10), where drill rig access was infeasible without undue damage to the wetland buffer zone, soil borings were advanced using hand tools (i.e., Bosch hammer drill). Drilling services and equipment were provided by New England Geotech. TRC collected a total of forty-two (42) soil samples (plus one laboratory duplicate) on June 24, 2009. Details of TRC's soil borings are summarized below and boring logs are included in Appendix D:

Soil Boring Summary – Summit Street Right-of-Way June 2009				
Soil Boring	Date Advanced	Total Depth (ft bgs)	Depths Submitted for Laboratory Analysis⁽¹⁾ (ft bgs)	Drill Rig
WSB-1	6/24/2009	10	0-1, 3-4, 5-6, (9-10)	6620 DT Track-Mounted Rig
WSB-2	6/24/2009	10	0-1, 3-4, 5-6, (9-10)	6620 DT Track-Mounted Rig

**Soil Boring Summary – Summit Street Right-of-Way
June 2009**

Soil Boring	Date Advanced	Total Depth (ft bgs)	Depths Submitted for Laboratory Analysis⁽¹⁾ (ft bgs)	Drill Rig
WSB-3	6/24/2009	10	0-1, 2-3, 5-6, (9-10)	6620 DT Track-Mounted Rig
WSB-4	6/24/2009	10	0-1, 2-3, 5-6, (9-10)	6620 DT Track-Mounted Rig
WSB-5	6/24/2009	14	0-1, 2-3, 5-6, (9-10)	6620 DT Track-Mounted Rig
WSB-6	6/24/2009	10	0-1 ⁽²⁾ , 2-3, 5-6, (9-10)	6620 DT Track-Mounted Rig
WSB-7	6/24/2009	5	0-1, 1-2, 3-4, 4-5	Bosch Hammer Drill
WSB-8	6/24/2009	5	0-1, 1-2, 3-4, 4-5	Bosch Hammer Drill
WSB-9	6/24/2009	8	0-1, 1-2, 2-3, 3.5-5, (6-7)	Bosch Hammer Drill
WSB-10	6/24/2009	8	0-1, 1-2, 2-3, 3.5-5, (7-8)	Bosch Hammer Drill

Notes:

¹ Depth in parentheses submitted to laboratory but placed on hold for contingency.

² Duplicate sample collected.

ft bgs – feet below ground surface.

The soil borings were intended to evaluate the presence or absence of fill, the vertical extent of contamination, and the potential for contaminants of concern in soil and/or fill material that may be present based on documentation available to TRC and past sampling in the area. Soil borings were advanced and samples were collected until native overburden was encountered and/or an elevation less than or equal to the approximate elevation of the wetland sediment surface was reached, unless refusal was encountered first. Where native material was submitted for laboratory analysis, a minimum of 2 samples of native material were collected in borings selected to characterize the native horizon. The lower native sample was retained for as-needed analysis contingent upon the results of the upper native horizon analysis in an attempt to delineate the vertical extent of contamination exceeding applicable standards, if present. The contingent native material was not analyzed if the native material interval above it was found to be uncontaminated (below cleanup criteria) based on laboratory analysis or as directed by the TRC LSP.

Figure 5 illustrates the locations investigated by TRC within the Summit Street ROW using the above-described techniques. The soil boring locations were surveyed by Land Planning following TRC's sampling activities. The locations are plotted on an aerial photograph obtained from the Massachusetts Geographic Information System dated April 2005.

TRC conducted field screening of soil samples consisting of visual and olfactory observations, jar headspace readings using an appropriately calibrated photoionization detector (PID), and professional judgment, consistent with TRC Standard Operating Procedures (SOPs) and general industry practice. TRC employed the MassDEP jar headspace technique to screen for the presence of volatile organic compounds (VOCs) in soil. TRC also evaluated and logged the geologic character of the soil samples, consistent with the Burmister (1958) method. A subset of soil samples was subjected to chemical analysis at an off-site environmental laboratory based on professional judgment consistent with the goals of the approved scope of work. The following

table summarizes soil samples collected by TRC from Summit Street ROW for laboratory analysis:

Summary of Soil Investigation Activities – Summit Street Right-of-Way June 2009					
Location	Soil Borings	Number of Soil Samples Submitted for Laboratory Analysis	Analyses¹		
			PCBs²	PAHs³	MCP Metals/Hg⁴
Summit Street ROW	10	34	30	29	29

Notes:

¹ Does not include quality control (QC) samples.

² Polychlorinated biphenyls (PCBs) as Aroclors by SW-846 Method 8082.

³ Polyaromatic hydrocarbons (PAHs) by SW-846 Method 8270C.

⁴ MCP Metals/Hg - antimony, arsenic, barium, beryllium, cadmium, chromium, lead, nickel, selenium, silver, thallium, vanadium, zinc and mercury by SW-846 Methods 6010B/7471A.

Samples were analyzed for PCB Aroclors (EPA Method 8082) by NEA, polynuclear aromatic hydrocarbons (PAHs; EPA Method 8270C) and/or total 14 MCP metals plus mercury (SW-846 Method 6010B/7471A) by Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts.

Analytical results associated with the above-referenced sampling event indicate several analytes detected above laboratory reporting limits. However, none of the aforementioned detections exceeded their associated S-1 Method 1 soil cleanup standards or, in the case of PCBs, the EPA cleanup level of 1 mg/kg. The maximum detected concentration of total PCBs was 0.587 mg/kg in sample WSB-9 (1-2'). Table 3 summarizes soil boring sampling analytical results. Total concentrations of select contaminants are also summarized on Figures 5.

TRC's June 24, 2009 soil sampling program indicated that the Summit Street ROW buffer zone/upland area had been adequately accessed. There were no obvious signs of potentially contaminated fill material associated with the former PSWS in the ten (10) soil borings, no elevated VOC headspace readings were noted (see Appendix D) and, as previously mentioned, no elevated concentrations of any contaminants of concern were detected in laboratory samples.

Due to the fact that portions of the Summit Street ROW intersect areas of the wetland with current or intermittent water, a total of seven (7) sediment locations were sampled along the western property boundary of the Summit Street ROW concurrent with the soil boring investigation on June 25, 2009. Consistent with previously described TRC sampling protocols, sediment samples were collected northwest of previously-collected sample SD-70 and west of previously collected samples SD-71 and SD-72 to assess the northern extent of the wetland contamination. Samples collected during this sampling event include:

June 25, 2009 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Description
SD-85 (0-0.5)	0-0.5	25 feet west of SD-72

SD-85 (1.5-2)	1.5-2	25 feet west of SD-72
SD-86 (0-0.5)	0-0.5	25 feet west of SD-71, 40 feet south
SD-86 (2-2.5)	2-2.5	25 feet west of SD-71, 40 feet south
SD-87 (0-0.5)	0-0.5	25 feet west of SD-71, 30 feet south
SD-87 (0.5-1)	0.5-1	25 feet west of SD-71, 30 feet south
SD-88 (0-0.5)	0-0.5	25 feet west of SD-71, 20 feet south
SD-88 (1-1.5)	1-1.5	25 feet west of SD-71, 20 feet south
SD-89 (0-0.5)	0-0.5	25 feet west of SD-71, 10 feet south
SD-90 (0-0.5)	0-0.5	25 feet west of SD-71
SD-90 (1.5-2)	1.5-2	25 feet west of SD-71
SD-91 (0-0.5)	0-0.5	Northwestern of SD-70
SD-91 (1.5-2)	1.5-2	Northwestern of SD-70

All of the sediment samples were analyzed for PCB Aroclors (EPA Method 8082). Table 3 summarizes the sediment sampling analytical results. Total concentrations of PCBs are also summarized on Figures 5. Sediment sample analytical results indicated that concentrations of PCBs generally tended to be low in the northwestern portion of the wetlands. Although several samples exhibited detections of total PCBs above laboratory reporting limits, only one sample (i.e., SD-91 (0-0.5) [2.1 mg/kg]) indicated an exceedance above the EPA cleanup level of 1 mg/kg and the associated MCP Reportable Concentration (RC) S-1 standard.

Figure 5 illustrates the sediment sample locations investigated by TRC within the Summit Street ROW using the above-described techniques. The sample locations were surveyed by Land Planning following TRC's sampling activities.

TRC's June 25, 2009 sediment sampling program indicated that concentrations of PCBs generally tended to be low or non-detect within the western portion of wetland that intersects the Summit Street ROW. However, total PCBs, above the EPA cleanup level and the associated MCP RC S-1 standard, were detected in sample SD-91 (0-0.5) at a concentration of 2.1 mg/kg. This sample was collected from the northwestern-most portion of the Site, from an area of intermittent water near the northern extent of the Summit Street ROW and immediately southwest of the Durfee Street culvert. Furthermore, the detected concentration indicated that the extent of total sediment PCB concentrations in excess of the EPA cleanup level had not yet been fully assessed in this portion of the Site.

TRC mobilized to the site to collect six (6) additional sediment samples on July 17, 2009 in order to assess the extent of contamination in the vicinity of detected concentrations of total PCBs at SD-91. Consistent with previously described TRC sampling protocol, the following samples were collected:

July 17, 2009 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Description
SD-92 (0-0.5)	0-0.5	2 feet west of SD-91

SD-92 (1.5-2)	1.5-2	2 feet west of SD-91
SD-93 (0-0.5)	0-0.5	10 feet south of SD-91
SD-93 (2.5-3)	2.5-3	10 feet south of SD-91
SD-94 (0-0.5)	0-0.5	15 feet east-northeast of SD-91
SD-94 (1.5-2)	1.5-2	15 feet east-northeast of SD-91

All of the sediment samples were analyzed for PCB Aroclors (EPA Method 8082). Table 3 summarizes the sediment sampling analytical results. Sample locations and total concentrations of PCBs are also summarized on Figures 5. Sediment sample analytical results indicated concentrations of PCBs above the EPA cleanup level of 1 mg/kg in only one of the sediment samples. Sample SD-92 (0-0.5) exhibited a total PCB concentration of 1.34 mg/kg. This concentration was confirmed by a field duplicate sample with a total PCB concentration of 1.06 mg/kg.

The detected concentration in SD-92 (0-0.5) indicates that the extent of total sediment PCB concentrations in excess of the EPA cleanup level had not yet been fully assessed in this portion of the Site. However, additional sampling would require mobilization to the private property adjacent to the Summit Street ROW and the City does not currently have an access agreement with the property owner. Therefore, additional sampling to further access the extent of contamination in the northwestern portion of the wetland will be detailed under a future IRA submittal.

(b) New Site Information and Data

For new Site information and data, the following presents: 1) a description of new sampling undertaken to support an ERC, including notable data recently obtained from the ERC sampling effort; 2) a summary of near surface stratification sampling undertaken in conjunction with ERC sampling at the request of the EPA; 3) a summary of supplemental sampling undertaken in response to ERC sampling results and to address potential data gaps based on discussions with the EPA; and 4) an update on the status of City’s plan to install a fence to mitigate the IH condition identified near SD-03.

Environmental Risk Characterization - TRC proposed to EPA an approach to evaluating ecological risks within the KMS wetland consistent with MCP Ecological Risk Characterization (ERC) guidance with the exception that Exposure Point Concentrations (EPCs) for receptor species will be represented by the 95-percent Upper Concentration Limit (UCL) of the arithmetic mean. Rick Sugat, an ecological risk specialist with EPA, concurred with the approach based on discussions with TRC’s Ecological Risk Specialist, Scott Heim. The use of the 95-percent UCL was requested by EPA.

In accordance with the MCP (310 CMR 40.0900) and consistent with MassDEP guidance TRC initiated a Stage I Environmental Screening (ES) and a Stage II ERC for the Site. Initially, the Stage I ES was conducted to determine potential pathways where ecological receptors at the Site may be exposed to contaminants and identify the pathway(s) where significant environmental harm is “readily apparent”, “potentially significant exposure” exists and requires further evaluation or exposure is insignificant based on the characteristics at the Site including

contaminant concentrations. Following review of the results of the Stage I ES, the Stage II ERC would serve to further evaluate those ecological exposure pathways where potentially significant exposures exist in order to determine whether a condition of significant risk of harm to the environment that would require remediation (if feasible), or, conversely, no significant risk of harm to the environment exists or has been achieved at the Site.

The details of the Stage I ES and Stage II ERC will be presented in a future submittal. Currently TRC's *Stage I Environmental Screening & Stage II Environmental Risk Characterization* report for the Site is undergoing internal review at TRC. The results will be presented in a future submittal.

- ***Supplemental Data Collection – Surface Water:*** A total of five (5) surface water samples were collected from the northern portion of the wetland to support the Stage I ES in March 2009. Surface water samples ERC-SW-7 and ERC-SW-9 were collected on March 5, 2009, samples ERC-SW-11A and ERC-SW-14 were collected on March 6, 2009 and sample ERC-SW-16 was collected on March 20, 2009. The locations of the Stage I ES surface water samples are presented in Figure 6.

Stage I ES surface water samples were analyzed for PCB homologues (EPA Method 680), the 14 MCP metals plus mercury (total and dissolved [filtered] using SW-846 Method 6010B/6020/7470A), hardness (SW-846 Method 6010B) and/or PAHs (SW-846 Method 8270C with Selective Ion Monitoring) analyses. PCB homologue analyses were conducted by NEA. Alpha Analytical (Alpha) of Westborough, Massachusetts conducted the metals, hardness and PAHs analyses. The surface water analytical results are summarized in Table 5.

In addition, ten (10) additional surface water samples (i.e., ERC-SW-20 through ERC-SW-29) plus one duplicate sample were collected by TRC on July 17, 2009 and analyzed for calcium, magnesium and zinc, as well as water hardness by Con-Test (see Figure 6). All of the surface water samples targeted for metals analyses were field filtered.

- ***Supplemental Data Collection – Sediment:*** TRC collected an additional twelve (12) sediment samples to support the Stage I ES from the previously excavated northern wetland area. This included samples ERC-SED-6 through ERC-SED-10 collected on March 5, 2009, samples ERC-SED-11A through ERC-SED-15 collected on March 6, 2009 and ERC-SED-16 and ERC-SED-17 collected on March 20, 2009. The locations of these samples (0 to 6 inch depth interval) are depicted on Figure 6. It should be noted that additional sediment samples were collected on March 5, 2008 (i.e., ERC-SED-6A and ERC-SED-9A) and March 6, 2008 (i.e., ERC-SED-11B and ERC-SED-14A) for the purposes of investigating PCB near surface stratification within the sediment column. These samples will be discussed in greater detail later in this section.

The samples were analyzed for total 14 MCP metals plus mercury (SW-846 Method 6010B/7471A) by Con-Test. PAHs (SW-846 Method 8270C with Selective Ion Monitoring) analyses were conducted by Alpha. In addition, a subset of the sediment samples (i.e., four samples) were analyzed for PCB congeners (co-planar congeners correlated with dioxin

toxicity via EPA Method 1668 [Revision A]) by SGS Environmental Services (SGS) of Wilmington, North Carolina and PCB Aroclors (SW-846 Method 8082) by NEA to obtain congener/aroclor ratios. The same subset of samples were analyzed for total organic carbon (SM 5310C) by Con-Test. The analytical results for the Stage I ES sediment samples are presented in Table 4.

- **Supplemental Data Collection – Surface Soil:** Because previous sampling by BETA detected the pesticide 4,4-DDT in the southern wetland (i.e., south of the land bridge), TRC collected five (5) surface soil samples from the southern wetland on March 5, 2009. Each of the samples was analyzed for select pesticides including 4,4-DDT and its derivatives 4,4-dichlorodiphenyldichloroethane [4,4-DDD] and 4,4-dichlorodiphenyldichloroethylene [4,4-DDE] via SW-846 Method 8081A. This included sample locations ERC-SED-1 through ERC-SED-5 as depicted in Figure 6. The pesticide analyses were conducted by Alpha, with analytical results presented in Table 6.

Integration with human health risk assessment and statistical basis needs – TRC’s human health risk assessors can use much of the data collected for the ERC to support the human health risk assessment. However, some supplemental data needs will also be addressed:

- **Surface water analyses:** Surface water samples collected for the ERC for PCB homologues will also be collected for PCB Aroclors to establish the basis for comparability between the surface water data and the sediment data (for which homologue data have not be collected/required).
- **Surface water sample number:** The collection of an additional 3 to 4 surface water samples may be targeted to support 95-percent UCL calculations.
- **Supplemental southern wetland sampling:** TRC is evaluating the available data from the southern portion of the wetland to determine if compounds other than pesticides and herbicides warrant sampling and analysis.

Note that since the southern wetland is typically dry (no or infrequent standing/flowing surface water), TRC has not targeted surface water data collection from that area. In addition, the above-proposed sampling approach assumes that BETA will provide all laboratory back-up to allow TRC to evaluate data usability (or in the case of PCBs, perform validation if not already conducted).

Near Surface Stratification Sampling - Based on a March 4, 2009 telephone discussion, EPA’s PCB Coordinator (Kim Tisa) agreed to go forward with the above detailed ERC evaluation, but requested that additional PCB sediment data (for Aroclors) be collected within 1.5 to 2 feet of each ERC sample location targeted for PCB congeners analysis (i.e., ERC-SED-6, ERC-SED-9, ERC-SED-11A and ERC-SED-14). Samples would be collected from 0 to 3 inches and 3 to 6 inches below the sediment surface to supplement data to be collected from 0 to 6 inches to evaluate near surface stratification. Four (4) additional locations (i.e., ERC-SED-6A, ERC-SED-9A, ERC-SED-11B and ERC-SED-14A) were selected to evaluate near surface stratification in

close proximity to the four (4) locations selected for PCB congener/aroclor ratio. Samples collected during this sampling event include:

March 4 & 5, 2009 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Description
ERC-SED-6A (0-0.25)	0-0.25	Approximately 1.5 feet west of ERC-SED-6
ERC-SED-6A (0.25-0.5)	0.25-0.5	Approximately 1.5 feet west of ERC-SED-6
ERC-SED-9A (0-0.25)	0-0.25	Approximately 1.5 feet north of ERC-SED-9
ERC-SED-9A (0.25-0.5)	0.25-0.5	Approximately 1.5 feet north of ERC-SED-9
ERC-SED-11B (0-0.25)	0-0.25	Approximately 1.5 feet west of ERC-SED-11A
ERC-SED-11B (0.25-0.5)	0.25-0.5	Approximately 1.5 feet west of ERC-SED-11A
ERC-SED-14A (0-0.25)	0-0.25	Approximately 1.5 feet south of ERC-SED-14
ERC-SED-14A (0.25-0.5)	0.25-0.5	Approximately 1.5 feet south of ERC-SED-14

The results of the near surface stratification sampling indicated that, in general, the more elevated concentration of PCB Aroclors were present in the upper 0 to 3 inch sample interval than the deeper 3 to 6 inch interval. Total PCB Aroclor concentrations in three of the four 0 to 3 inch samples (i.e., ERC-SED-9A, ERC-SED-11B and ERC-SED-14A) were significantly more elevated (i.e., 5.07, 66.9 and 0.319 mg/kg, respectively) than the corresponding 3 to 6 inch sample (i.e., 0.305, 0.797 mg/kg and non-detect, respectively). The only exceptions were the samples from ERC-SED-6A, which exhibited total PCB Aroclor concentrations of 9.21 mg/kg (0 to 3 inch sample) and 16.5 mg/kg (3 to 6 inch sample). These four additional locations are also depicted on Figure 6 with the associated analytical results presented in Table 4.

Furthermore, in each case, the total combined PCB Arcolor concentration of the stratification samples (e.g., 25.71 mg/kg in the case of samples ERC-SED-6A (0-0.25) and ERC-SED-6A (0.25-0.5)) correlated relatively well with the adjacent 0 to 6 inch depth interval sample (e.g., 27.8 mg/kg in the case of sample ERC-SED-6 (0-0.5)). This further supports the observation that the more elevated PCB contaminant concentrations are generally within the shallowest sediments at the Site. However, due to the relatively small sample set (i.e., only four locations) and the fact that elevated total concentrations of PCB Aroclors have been detected at select locations throughout the wetland at greater depths (e.g., SD-03 (1-1.5') and SD-72 (1.5-2') located at opposites ends of the northern wetland area with total PCB Aroclor concentrations of 20.37 mg/kg and 7.99 mg/kg, respectively) the potential for localized areas of deeper contaminant impacts exists.

Supplemental Sampling - As noted in TRC's most recent IRA Status Report data April 3, 2009 and in Section I above, with authorization from the City on March 20, 2009, TRC collected seven (7) additional sediment samples, including one duplicate, in the vicinity of the high total PCB concentrations detected in sediment samples ERC-SED-11A (0-0.5) (434 mg/kg) and ERC-SED-11B (0-0.25) (66.9 mg/kg). The location and pattern of the additional samples (i.e., SED-11A-A through SED-11A-F) was designed to attempt to define the lateral extent of ERC-SED-11A contaminant hot spot (see Figure 7). The sediment samples were collected from the 0 to 6

inch depth interval in accordance with previously described TRC sampling methodology. Samples collected during this sampling event include:

March 20, 2009 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Description
SED-11A-A	0-0.5	Approximately 10 feet south of ERC-SED-11A
SED-11A-B	0-0.5	Approximately 5 feet south of ERC-SED-11A
SED-11A-C	0-0.5	Approximately 5 feet west of ERC-SED-11A
SED-11A-D	0-0.5	Approximately 5 feet east of ERC-SED-11A
SED-11A-E	0-0.5	Approximately 5 feet north of ERC-SED-11A
SED-11A-F	0-0.5	Approximately 10 feet north of ERC-SED-11A

The results of additional sediment sampling confirm elevated total PCB concentrations in the vicinity of SED-ERC-11A (i.e., SED-11A-A [20.6 mg/kg], SED-11A-B and the associated duplicate sample SED-11A-BB [705 mg/kg and 805 mg/kg, respectively], SED-11A-D [838 mg/kg], and SED-11A-E [31.3 mg/kg]). In addition, the results from locations SED-11A-C [9.82 mg/kg] and SED-11A-F [5.50 mg/kg], located approximately 5-feet west and 10-feet north of ERC-SED-11A respectively, provided an initial indication that the elevated concentrations were localized. The associated analytical results are presented in Table 2.

In conjunction with the collection of supplemental sediment samples, four (4) soil sampling locations were selected along the cap slope immediately adjacent to ERC-SED-11A to determine if the cap had been compromised in any way, resulting in the elevated total PCB concentrations (see summary table below). On March 19, 2009 TRC collected the four shallow (0-6 inch depth interval) soil samples (i.e., SLP-11A-1 through SLP-11A-4) on the cap slope (see Figure 7). All four of the samples were analyzed for PCB Aroclors (EPA Method 8082) by NEA and exhibited low or non-detect total PCB concentrations. Sample SLP-11A-1 was the only soil sample that exhibited a detectable concentration of PCBs (0.079 mg/kg). The analytical results are presented in Table 2.

March 19, 2009 KMS Wetland Cap Soil Sampling		
Sample I. D.	Depth (feet)	Description
SLP-11A -1	0-0.5	Approximately 10 feet up slope from water
SLP-11A-2	0-0.5	Approximately 2 feet up slope from water
SLP-11A-3	0-0.5	Approximately 10 feet south of SLP-11A-1 & 2
SLP-11A-4	0-0.5	Approximately 10 feet north of SLP-11A-1 & 2

Based on the elevated sediment PCB concentrations noted above, TRC proposed to EPA, MassDEP and the City a two-phase approach to further evaluate Site conditions. The first phase of work would employ a sampling program consistent with what TRC had done in the past with the goal of further evaluating and delineating the lateral extents of the ERC-SED-11A area sediment hot spot and address other perceived data gaps. Although a total of

fourteen soil samples along the cap slope, five (5) samples of storm drain sediment material and five (5) samples of material beneath the storm drain outfall rip-rap had previously been collected, additional sampling, particularly of the soil along the cap slope, was necessary to determine if the cap was compromised in any way. TRC proposed the collection of sediment samples at eight (8) additional locations north, west or south of ERC-SED-11A. In addition, a total of sixteen (16) additional cap slope soil samples and two (2) outfall material samples were proposed.

Following approval from the EPA, MassDEP and the City, TRC conducted additional sediment sampling on August 12, 2009. Eight additional sediment locations (i.e., SED-11A-G through SED-11A-N) in the vicinity of ERC-SED-11A were sampled from the 0 to 6 inch depth interval and one deeper interval using hand augers. Consistent with previous sampling events by TRC, the deeper interval corresponded to the depth that native sand was encountered or the maximum depth that could be reached with the hand auger if the sand layer was not encountered. This approach served to help determine the vertical extent of the PCB impacts as well as the thickness of organic material within this portion of the wetland. A total of seventeen (17) sediment samples including one duplicate were collected and analyzed for PCB Aroclors (EPA Method 8082) by NEA. The locations of the sediment samples are presented in Figure 7 and include the following:

March 20, 2009 KMS Wetland Sediment Sampling		
Sample I. D.	Depth (feet)	Description
SED-11A-G (0-0.5)	0-0.5	Approximately 40 feet north of SED-11A-F
SED-11A-G (36-42)	3-3.5	Approximately 40 feet north of SED-11A-F
SED-11A-H (0-0.5)	0-0.5	Approximately 20 feet west of SED-11A-C
SED-11A-H (30-36)	3-3.5	Approximately 20 feet west of SED-11A-C
SED-11A-I (0-0.5)	0-0.5	Approximately 15 feet south of SED-11A-A
SED-11A-I (48-54)	4-4.5	Approximately 15 feet south of SED-11A-A
SED-11A-J (0-0.5)	0-0.5	Approximately 20 feet north of SED-11A-G
SED-11A-J (40-44)	3.33-3.66	Approximately 20 feet north of SED-11A-G
SED-11A-K (0-0.5)	0-0.5	Approximately 20 feet south of SED-11A-I
SED-11A-K (54-60)	4.5-5	Approximately 20 feet south of SED-11A-I
SED-11A-L (0-0.5)	0-0.5	Approximately 20 feet north of SED-11A-J
SED-11A-L (40-44)	3.33-3.66	Approximately 20 feet north of SED-11A-J
SED-11A-M (0-0.5)	0-0.5	Approximately 25 feet south of SED-11A-K
SED-11A-M (36-42)	3-3.5	Approximately 25 feet south of SED-11A-K
SED-11A-N (0-0.5)	0-0.5	Approximately 25 feet south of SED-11A-M
SED-11A-N (62-68)	5.16-5.66	Approximately 25 feet south of SED-11A-M

The analytical results of the shallow 0 to 6 inch depth interval samples were generally consistent with other total PCB concentrations detected in the wetland, ranging between non-detect (SED-11A-H) and 7.65 mg/kg (SED-11A-K duplicate analysis was 12.29 mg/kg). None of the sediment samples collected at depth exhibited detectable concentrations of PCBs (see Table 2). Furthermore, the analytical results confirmed that the hot spot area is localized both laterally and vertically to a small area surrounding ERC-SED-11A.

On August 13, 2009, TRC collected a total of sixteen (16) shallow soil samples (i.e., SLP-12 through SLP-27) plus one duplicate along the cap slope between the land bridge (separately the northern and southern portions of the wetland) and the northeast extent of the cap (see summary table below). The locations were approximately evenly distributed between previous cap slope samples collected by TRC to address potential data gaps (see Figure 7). In addition, two (2) shallow samples (i.e., OF-5A and OF-5B) were collected adjacent to rip-rap associated with the storm drain outfall immediately southeast of the ERC-SED-11A hot spot area. Consistent with previous employed sampling methods, all of the soil samples were collected from the 0 to 6 inch depth interval and analyzed by NEA for PCB Aroclors (EPA Method 8082).

March 19, 2009 KMS Wetland Cap Soil Sampling		
Sample I. D.	Depth (feet)	Description
SLP-12	0-0.5	Northern toe of land bridge
SLP-13	0-0.5	Approximately 50 feet east of SLP-12
SLP-14	0-0.5	Approximately 25 feet north of OF-1
SLP-15	0-0.5	Approximately 25 feet north of OF-3
SLP-16	0-0.5	Approximately 25 feet south of OF-4
SLP-17	0-0.5	Approximately 25 feet north of OF-4
SLP-18	0-0.5	Approximately 25 feet south of OF-5
SLP-19	0-0.5	Approximately 5 feet south of OF-5
SLP-20	0-0.5	Approximately 10 feet east of OF-5
SLP-21	0-0.5	Approximately 20 feet south of SLP-8
SLP-22	0-0.5	Approximately 30 feet south of SLP-23
SLP-23	0-0.5	Approximately 10 feet east of ERC-SED-12
SLP-24	0-0.5	Approximately 50 feet east of SLP-23
SLP-25	0-0.5	Approximately 90 feet east of SLP-24
SLP-26	0-0.5	Approximately 50 feet northeast of SLP-25
SLP-27	0-0.5	Approximately 90 feet north of SLP-26
OF-5A	0-0.5	Immediately south of OF-5 stormwater drain
OF-5B	0-0.5	Immediately north of OF-5 stormwater drain

Detected total PCB concentrations in the additional soil samples were generally low (i.e., less than 1 mg/kg) or non-detect, with the exception of sample SLP-12 [3.34 mg/kg] collected on the north side of the land bridge. This sample was collected approximately two feet above the water level in the northern portion of the wetland. Although, the concentration is not elevated relative to many of the previous wetland samples, it does represent the highest concentration of PCBs detected along the slope and therefore could be an indication that additional assessment is required. Any additional investigation associated with sample SLP-12 will be detailed in future IRA Status or Completion Reports.

It should also be noted that TRC field personnel observed the orange snow fence warning layer associated with the cap at shallow depths (i.e., less than 6-inches below surface) at sample locations SLP-22, SLP-23 and SLP-24 along the northwest corner of the cap (see Figure 7). In addition, small exposures of the warning layer were visible at the cap surface in the vicinity of sample location SLP-22, potentially indicating that the cap was eroding and/or compromised in this area. In response, a TRC engineer familiar with the Site was mobilized to conduct an inspection of the cap. Based on the inspection, it was determined that the integrity of the cap was not compromised. Furthermore, it is likely that the warning layer is in close proximity to the surface as a result of being near the limit of the lateral extent of PSWS-related fill material and/or near the end of a select snow fence roll(s) that was not weighted properly during cap installation (i.e., the snow fence may have curled somewhat during installation, resulting in the near surface exposures).

The second phase of the investigation focuses on the collection of continuous samples at depth (i.e., approximately 4 to 5-feet below grade) along the toe of the cap using direct push methods. Given the logistical issues with conducting this phase of the investigation (e.g., wet conditions, limited access point for equipment, the steepness of the cap slope, desire not to adversely impact the cap slope, etc.) a limited number of potential approaches were presented to the EPA, MassDEP and City. Furthermore, TRC proposed that this phase of the investigation be conducted in the winter, under frozen conditions, to minimize the number of logistical concerns. Further updates on the second phase of this sampling event will be presented, following final approval of the sampling approach, in future IRA Status or Completion Reports.

Fencing as an IH Mitigation Measure – As previously noted, TRC has recommended that the City erect a fence to mitigate areas of PCB sediment contamination that present an IH in the vicinity of SD-03 near the land bridge. This included an evaluation of the minimum extent of wetland area requiring fencing and potentially fencing multiple areas of the wetland given the results of more recent investigations.

The results of the Summit Street ROW sampling, ERC-related sampling, near surface stratification sampling and supplemental delineation and data gap sampling indicate that elevated concentrations (i.e., concentrations in excess of the EPA cleanup level) of PCBs are not localized to the vicinity of location SD-03. Recent analytical results have indicated that the highest concentrations of PCBs detected to date in wetland sediments (i.e., locations SED-11A-B and SED-11A-D) are located approximately 700 feet north of sample location SD-03. In addition, elevated concentrations of PCBs in excess of the EPA cleanup level have been detected near the northwestern limit of the wetland. As a result of the widespread distribution of localized areas of elevated PCBs, the City initiated plans for fencing the entire northern portion of the wetland.

As indicated in Figure 8, the proposed fence would tie into the existing KMS perimeter fence at the land bridge, run west to Summit Street, north to enclose the corner of Summit Street and Hapwell Street, then north along the western boundary of the Summit Street ROW and ultimately tie into the existing fence along Durfee Street. Figure 8 also indicates the associated sampling locations in close proximity to the proposed fenceline. Analytical data associated with wetland sampling locations are presented in Tables 1, 2 and 3. Select data associated with properties adjacent to the proposed fence along Durfee Street (i.e., 288 Durfee Street and the “Durfee Street West Lot”) are present in Table 7.

Currently the City is refining the fencing approach, in coordination with the EPA, and has no firm timeframe for initiating construction of the fence. Any final plans for construction of the fence will be subject to all applicable MassDEP and EPA approvals and no construction will start prior to those approvals. As a result, final fence installation details will be described in a future IRA Status or Completion Report.

Plans for the Management of Remediation Waste, Remedial Wastewater, and/or Remedial Additives

IRA activities have included assessment of the presence of PCBs in wetland sediment and other media. Therefore, no remediation waste or remedial wastewater has been generated, and no remedial additives have been employed.

(c) Mass DEP-Required Information

An IH evaluation was performed and submitted with the IRA plan. No additional information has been requested by MassDEP.

(d) LSP Opinion

The objective of this IRA was to assess and delineate sediment contamination as a follow-up to MassDEP orally-approved IRA activities initiated June 9, 2008. The areal extent of contaminated sediment has been delineated and temporary barriers and access limitations (e.g. fencing) are planned to mitigate the IH condition, with pending diagnosis, remedy, and closure of the release condition to be incorporated into the comprehensive Special Project remedial actions. Additional sampling and analysis in support of further assessment activities is on-going and will be discussed in future IRA Status or Completion reports. The pending diagnosis, remedy, and closure release condition will then be addressed as part of the comprehensive response actions for the KMS Site under Special Project status and linked under RTN 4-15685.

This IRA Status Report has been prepared in accordance with 310 CMR 40.0425 as set forth in the MCP.

David M. Sullivan

David M. Sullivan, LSP, CHMM
TRC Environmental Corporation
Licensed Site Professional No. 1488

9/30/2009

Date

Stamp



III. REFERENCES

- BETA 2005 *Risk Based Cleanup Request*, School Site at McCoy Field, New Bedford, Massachusetts, Revision 2. BETA Group, Inc., May 2005.
- BETA 2006a *Long-Term Monitoring and Maintenance Implementation Plan*, New Keith Middle School Property, 225 Hathaway Boulevard, New Bedford, Massachusetts, Revision 4, BETA Group, Inc., October 2006
- BETA 2006b *Final Completion and Inspection Report*, McCoy Field / Keith Middle School, 225 Hathaway Boulevard, New Bedford, Massachusetts, BETA Group, Inc., December 2006.
- Burmister, 1958 *Suggested Methods of Tests for Identification of Soils*. In: Procedures for Testing Soils. American Society for Testing and Materials, Philadelphia, PA, 1958
- MassGIS 2008 Massachusetts Geographic Information System (MassGIS), On-line MassDEP Priority Resource Map. Accessed July 28, 2008.
<http://maps.massgis.state.ma.us/21e/viewer.htm>
- TRC 2008 Letter to David Fredette, PE, City of New Bedford Department of Environmental Stewardship from David M. Sullivan, LSP, CHMM, TRC Environmental Corporation, Lowell, Massachusetts. Re: Groundwater Monitoring Results, Keith Middle School, New Bedford, Massachusetts. June 11, 2008.

TABLES

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		SD-01		SD-02	SD-03						SD-3A	SD-3B	SD-3C	SD-3D	SD-3E	SD-3F	SD-3G				
		Sample Depth (ft.):		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	1-1.5	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5				
		Sample Date:		5/27/2008	5/27/2008	5/27/2008	5/27/2008	5/27/2008	5/27/2008	5/27/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/10/2008	6/19/2008	6/19/2008	6/19/2008			
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	Field Dup		Field Dup													
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	0.485 U	0.302 U	0.424 UJ	0.355 UJ	0.483 UJ	0.0551 U	0.264 U	0.0576 U	0.0588 U	0.761 U	0.0736 U	0.605 UJ	0.311 UJ
	Aroclor 1221	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	0.485 U	0.302 U	0.424 UJ	0.355 UJ	0.483 UJ	0.0551 U	0.264 U	0.0576 U	0.0588 U	0.761 U	0.0736 U	0.605 UJ	0.311 UJ
	Aroclor 1232	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	0.485 U	0.302 U	0.424 UJ	0.355 UJ	0.483 UJ	0.0551 U	0.264 U	0.0576 U	0.0588 U	0.761 U	0.0736 U	0.605 UJ	0.311 UJ
	Aroclor 1242	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	0.485 U	0.302 U	0.424 UJ	0.355 UJ	0.483 UJ	0.0551 U	0.264 U	0.0576 U	0.0588 U	0.761 U	0.0736 U	0.605 UJ	0.311 UJ
	Aroclor 1248	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	0.485 U	0.302 U	0.424 UJ	0.355 UJ	0.483 UJ	0.0551 U	0.264 U	0.0576 U	0.0588 U	0.761 U	0.0736 U	0.605 UJ	0.311 UJ
	Aroclor 1254	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	15.0 J	10.6 J	11.8 J	13.9 J	18.0 J	0.933 J	12.9 J	0.0576 U	0.143 J	29.9 J	3.64 J	20.2 J	7.41 J
	Aroclor 1260	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	1.56 J	1.28 J	1.48 J	1.76 J	2.37 J	0.0551 U	1.68 J	0.0576 U	0.0588 U	3.57 J	0.0736 U	2.57 J	0.951 J
	Total PCBs	2	2	3	3	2	1	0.275 UJ	0.298 UJ	0.218 UJ	16.56 J	11.88 J	13.28 J	15.66 J	20.37 J	0.933 J	14.58 J	0.0576 U	0.143 J	33.47 J	3.64 J	22.77 J	8.361 J

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
UJ - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded** type exceed one or more of the listed Method 1 standards.
Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-3H			SD-3I			SD-3J			SD-3K			SD-3L			SD-3M		SD-3N		SD-3P	
		Sample Depth (ft.):						0-0.5	0-0.5	0-0.5	0-0.5	1-1.5	2.5-3	0-0.5	1-1.5	1-1.5	0-0.5	1-1.5	0-0.5	1-1.5	0-0.5	0.7-1.2						
		Sample Date:						6/19/2008	6/19/2008	6/19/2008	7/30/2008	7/30/2008	9/18/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008						
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																					
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.288 U	0.221 U	0.231 U	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Aroclor 1221	2	2	3	3	2	1	0.288 U	0.221 U	0.231 U	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Aroclor 1232	2	2	3	3	2	1	0.288 U	0.221 U	0.231 U	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Aroclor 1242	2	2	3	3	2	1	0.288 U	0.221 U	0.231 U	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Aroclor 1248	2	2	3	3	2	1	0.288 U	0.221 U	0.231 U	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Aroclor 1254	2	2	3	3	2	1	11.7 J	6.12 J	5.05 J	18.3 J	5.84 J	0.0652 U	5.00 J	0.219 J	0.165 UJ	0.812 J	0.765 J	21.5 J	0.430 J	3.17 J	0.329 J						
	Aroclor 1260	2	2	3	3	2	1	0.288 U	0.673 J	0.735 J	0.552 U	0.272 U	0.0652 U	0.172 U	0.161 U	0.165 UJ	0.158 U	0.259 UJ	0.779 U	0.0550 U	0.132 U	0.0627 U						
	Total PCBs	2	2	3	3	2	1	11.7 J	6.793 J	5.785 J	18.3 J	5.84 J	0.0652 U	5.00 J	0.219 J	0.165 UJ	0.812 J	0.765 J	21.5 J	0.430 J	3.17 J	0.329 J						

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.
Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		Sample Depth (ft.):		Sample Date:		SD-3Q		SD-3R		SD-3S		SD-3T		SD-3U			SD-3V			SD-3W	
								0-0.5	0.8-1.3	0-0.5	1-1.5	0-0.5	1-1.5	0-0.5	1-1.5	0-0.5	0-0.5	1-1.5	0-0.5	1-1.5	2.5-3	0-0.5	1-1.5
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	7/30/2008	7/30/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	9/17/2008	8/19/2008	8/19/2008
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Aroclor 1221	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Aroclor 1232	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Aroclor 1242	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Aroclor 1248	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Aroclor 1254	2	2	3	3	2	1	1.61 J	0.195 J	0.470 J	0.267 J	0.805 J	0.0530 U	0.872 J	0.291 UJ	1.70 J	1.85 J	0.353 J	5.64 J	3.49 J	0.0600 U	1.86 J	0.240 UJ
	Aroclor 1260	2	2	3	3	2	1	0.0593 U	0.102 U	0.175 UJ	0.192 UJ	0.104 U	0.0530 U	0.0790 U	0.291 UJ	0.216 UJ	0.245 UJ	0.239 UJ	0.116 U	0.148 U	0.0600 U	0.147 U	0.240 UJ
	Total PCBs	2	2	3	3	2	1	1.61 J	0.195 J	0.470 J	0.267 J	0.805 J	0.0530 U	0.872 J	0.291 UJ	1.70 J	1.85 J	0.353 J	5.64 J	3.49 J	0.0600 U	1.86 J	0.240 UJ

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.
Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-04-PRE	SD-04			SD-05			SD-06			SD-07			SD-08		
		Sample Depth (ft.):						0-0.5	0-0.5	0-0.5	1.5-2	2-2.5	0-0.5	1.5-2	2-2.5	0-0.5	1-1.5	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2
		Sample Date:						5/27/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/18/2008	9/18/2008	9/18/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	Field Dup															
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Aroclor 1221	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Aroclor 1232	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Aroclor 1242	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Aroclor 1248	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Aroclor 1254	2	2	3	3	2	1	0.0594 U	0.552 J	0.730 J	0.0576 U	0.0567 U	0.263 J	0.0562 U	0.0581 U	2.49 J	0.320 J	0.0529 U	1.84 J	0.0702 U	0.0611 U	0.984 J	0.183 UJ
	Aroclor 1260	2	2	3	3	2	1	0.0594 U	0.179 UJ	0.188 UJ	0.0576 U	0.0567 U	0.180 UJ	0.0562 U	0.0581 U	0.152 U	0.271 UJ	0.0529 U	0.237 UJ	0.0702 U	0.0611 U	0.158 UJ	0.183 UJ
	Total PCBs	2	2	3	3	2	1	0.0594 U	0.552 J	0.730 J	0.0576 U	0.0567 U	0.263 J	0.0562 U	0.0581 U	2.49 J	0.320 J	0.0529 U	1.84 J	0.0702 U	0.0611 U	0.984 J	0.183 UJ

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-09			SD-09A	SD-10			SD-11			SD-12		SD-13				
		Sample Depth (ft.):						0-0.5	1.5-2	2.5-3	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	0-0.5	0-0.5	1.5-2	2.5-3	
		Sample Date:						9/18/2008	9/18/2008	9/18/2008	10/6/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	10/6/2008	10/6/2008	10/6/2008	10/6/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																	
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.125 U	0.112 U	0.0581 U	0.0540 U	
	Aroclor 1221	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.125 U	0.112 U	0.0581 U	0.0540 U	
	Aroclor 1232	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.125 U	0.112 U	0.0581 U	0.0540 U	
	Aroclor 1242	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.125 U	0.112 U	0.0581 U	0.0540 U	
	Aroclor 1248	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.125 U	0.112 U	0.0581 U	0.0540 U	
	Aroclor 1254	2	2	3	3	2	1	0.236 J	0.0575 U	2.09 J	0.0606 U	1.23 J	0.0765 U	0.0630 U	0.909 J	0.0598 U	0.0567 U	0.0612 U	0.0924 U	3.66 J	0.112 UJ	0.0581 U	1.49 J	
	Aroclor 1260	2	2	3	3	2	1	0.134 U	0.0575 U	0.138 U	0.0606 U	0.188 UJ	0.0765 U	0.0630 U	0.238 UJ	0.0598 U	0.0567 U	0.0612 U	0.0924 U	0.453 J	0.112 U	0.0581 U	0.205 J	
	Total PCBs	2	2	3	3	2	1	0.236 J	0.0575 U	2.09 J	0.0606 U	1.23 J	0.0765 U	0.0630 U	0.909 J	0.0598 U	0.0567 U	0.0612 U	0.0924 U	4.113 J	0.112 U	0.0581 U	1.695 J	

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-18			SD-19			SD-20			SD-21			SD-22	SD-23		
		Sample Depth (ft.):						0-0.5	1.5-2	2.5-3	0-0.5	1-1.5	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	0-0.5		
		Sample Date:						10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/6/2008	10/6/2008	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Aroclor 1221	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Aroclor 1232	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Aroclor 1242	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Aroclor 1248	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Aroclor 1254	2	2	3	3	2	1	1.38 J	0.0566 U	0.0579 U	2.69 J	0.0582 U	0.0577 U	0.331 J	0.0583 U	0.0588 U	1.63 J	0.117 U	0.0583 U	0.633 J	0.0758 U		
	Aroclor 1260	2	2	3	3	2	1	0.208 UJ	0.0566 U	0.0579 U	0.163 UJ	0.0582 U	0.0577 U	0.221 UJ	0.0583 U	0.0588 U	0.190 UJ	0.117 U	0.0583 U	0.179 UJ	0.0758 U		
	Total PCBs	2	2	3	3	2	1	1.38 J	0.0566 U	0.0579 U	2.69 J	0.0582 U	0.0577 U	0.331 J	0.0583 U	0.0588 U	1.63 J	0.117 U	0.0583 U	0.633 J	0.0758 U		

Notes:

All units in mg/kg.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		SD-24				SD-25			SD-26			SD-27			SD-28						
		Sample Depth (ft.):		0-0.5	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3				
		Sample Date:		10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008			
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	Field Dup															
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Aroclor 1221	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Aroclor 1232	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Aroclor 1242	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Aroclor 1248	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Aroclor 1254	2	2	3	3	2	1	1.60 J	1.30 J	0.0588 U	0.0569 U	0.600 J	0.0604 U	0.0579 U	1.39 J	0.156 U	0.0612 U	0.390 J	0.0620 U	0.0557 U	0.0708 J	0.0592 U	0.0550 U
	Aroclor 1260	2	2	3	3	2	1	0.172 UJ	0.182 UJ	0.0588 U	0.0569 U	0.220 UJ	0.0604 U	0.0579 U	0.184 UJ	0.156 U	0.0612 U	0.102 U	0.0620 U	0.0557 U	0.0699 U	0.0592 U	0.0550 U
	Total PCBs	2	2	3	3	2	1	1.60 J	1.30 J	0.0588 U	0.0569 U	0.600 J	0.0604 U	0.0579 U	1.39 J	0.156 U	0.0612 U	0.390 J	0.0620 U	0.0557 U	0.0708 J	0.0592 U	0.0550 U

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-29			SD-30			SD-31			SD-32			SD-33					
		Sample Depth (ft.):						0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3	0-0.5	1.5-2	2.5-3			
		Sample Date:						10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/23/2008	10/23/2008	10/23/2008	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																		
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Aroclor 1221	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Aroclor 1232	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Aroclor 1242	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Aroclor 1248	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Aroclor 1254	2	2	3	3	2	1	1.39 J	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.747 J	0.0750 U	0.510 J	0.690 J	0.0637 U	0.0582 U	0.835 J	0.288 UJ	0.0620 U			
	Aroclor 1260	2	2	3	3	2	1	0.247 UJ	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.254 UJ	0.0750 U	0.0633 U	0.327 UJ	0.0637 U	0.0582 U	0.0787 U	0.288 UJ	0.0620 U			
	Total PCBs	2	2	3	3	2	1	1.39 J	0.0585 U	0.0560 U	0.0845 U	0.285 UJ	0.0627 U	0.747 J	0.0750 U	0.510 J	0.690 J	0.0637 U	0.0582 U	0.835 J	0.288 UJ	0.0620 U			

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.
Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		SD-34				SD-35	SD-36	SD-37		SD-38		SD-39		SD-40						
		Sample Depth (ft.):		0-0.5	0-0.5	1.5-2	2.5-3	0-0.5	0-0.5	0-0.5	2-2.5	0-0.5	2-2.5	0-0.5	3-3.5	0-0.5	0-0.5	3-3.5				
		Sample Date:		10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008				
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	Field Dup						Field Dup								
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Aroclor 1221	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Aroclor 1232	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Aroclor 1242	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Aroclor 1248	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Aroclor 1254	2	2	3	3	2	1	4.47 J	0.198 UJ	0.276 UJ	0.313 UJ	6.81 J	0.152 J	0.593 J	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	4.90 J	5.23 J	0.345 UJ
	Aroclor 1260	2	2	3	3	2	1	0.376 UJ	0.198 UJ	0.276 UJ	0.313 UJ	0.249 UJ	0.0983 U	0.175 UJ	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	0.185 UJ	0.284 U	0.345 UJ
	Total PCBs	2	2	3	3	2	1	4.47 J	0.198 UJ	0.276 UJ	0.313 UJ	6.81 J	0.152 J	0.593 J	0.0584 U	0.135 U	0.0596 U	0.355 UJ	0.0577 U	4.90 J	5.23 J	0.345 UJ

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-41		SD-42		SD-43		SD-44		SD-45		SD-46		SD-47	
		Sample Depth (ft.):						0-0.5	3-3.5	0-0.5	2.5-3	0-0.5	2.5-3	0-0.5	2.5-3	0-0.5	1.5-2	0-0.5	2.5-3	0-0.5	4-4.5
		Sample Date:						12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008	12/4/2008	12/4/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Aroclor 1221	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Aroclor 1232	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Aroclor 1242	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Aroclor 1248	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Aroclor 1254	2	2	3	3	2	1	0.692 J	0.406 UJ	1.34 J	0.0588 U	1.22 J	0.297 UJ	0.317 UJ	0.315 UJ	1.06 J	0.505 J	0.399 J	0.366 UJ	0.381 J	0.347 UJ
	Aroclor 1260	2	2	3	3	2	1	0.226 UJ	0.406 UJ	0.263 UJ	0.0588 U	0.155 U	0.297 UJ	0.317 UJ	0.315 UJ	0.283 UJ	0.345 UJ	0.0739 U	0.366 UJ	0.263 UJ	0.347 UJ
	Total PCBs	2	2	3	3	2	1	0.692 J	0.406 UJ	1.34 J	0.0588 U	1.22 J	0.297 UJ	0.317 UJ	0.315 UJ	1.06 J	0.505 J	0.399 J	0.366 UJ	0.381 J	0.347 UJ

Notes:

All units in mg/kg.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-48		SD-49		SD-50		SD-51		SD-52		SD-53		SD-54			
		Sample Depth (ft.):						0-0.5	3-3.5	0-0.5	2.5-3	0-0.5	3.5-4	0-0.5	3-3.5	0-0.5	3-3.5	0-0.5	3-3.5	0-0.5	0-0.5	3.5-4	
		Sample Date:						12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/5/2008	12/5/2008	12/4/2008	12/4/2008	12/4/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														Field Dup		
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Aroclor 1221	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Aroclor 1232	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Aroclor 1242	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Aroclor 1248	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Aroclor 1254	2	2	3	3	2	1	1.36 J	0.0595 U	0.837 J	0.341 J	1.21 J	0.197 UJ	0.365 UJ	0.385 UJ	1.0 J	0.383 UJ	0.343 J	0.267 UJ	0.507 J	0.435 J	0.0685 U	
	Aroclor 1260	2	2	3	3	2	1	0.156 U	0.0595 U	0.104 U	0.320 UJ	0.209 UJ	0.197 UJ	0.365 UJ	0.385 UJ	0.215 UJ	0.383 UJ	0.0809 U	0.267 UJ	0.245 UJ	0.245 UJ	0.0685 U	
	Total PCBs	2	2	3	3	2	1	1.36 J	0.0595 U	0.837 J	0.341 J	1.21 J	0.197 UJ	0.365 UJ	0.385 UJ	1.0 J	0.383 UJ	0.343 J	0.267 UJ	0.507 J	0.435 J	0.0685 U	

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-55		SD-56		SD-57		SD-58		SD-59		SD-60		SD-61	
		Sample Depth (ft.):						0-0.5	1.5-2	0-0.5	3.5-4	0-0.5	2-2.5	0-0.5	2.5-3	0-0.5	2.5-3	0-0.5	1.5-2	0-0.5	2.5-3
		Sample Date:						12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/8/2008	12/8/2008	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/8/2008	12/8/2008	12/4/2008	12/4/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Aroclor 1221	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Aroclor 1232	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Aroclor 1242	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Aroclor 1248	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Aroclor 1254	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.470 J	0.0668 U	1.36 J	0.0629 U	1.77 J	0.0578 U	1.02 J	0.0581 U	0.820 J	0.0610 U	0.264 J	0.0550 U
	Aroclor 1260	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.178 UJ	0.0668 U	0.351 UJ	0.0629 U	0.197 UJ	0.0578 U	0.301 UJ	0.0581 U	0.132 U	0.0610 U	0.0626 U	0.0550 U
	Total PCBs	2	2	3	3	2	1	0.235 UJ	0.227 UJ	0.470 J	0.0668 U	1.36 J	0.0629 U	1.77 J	0.0578 U	1.02 J	0.0581 U	0.820 J	0.0610 U	0.264 J	0.0550 U

Notes:

All units in mg/kg.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-62		SD-63		SD-64		SD-65		SD-66		SD-67		SD-68	
		Sample Depth (ft.):						0-0.5	1-1.5	0-0.5	1.5-2	0-0.5	2-2.5	0-0.5	1-1.5	0-0.5	2-2.5	0-0.5	2.5-3	0-0.5	4-4.5
		Sample Date:						12/8/2008	12/8/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Aroclor 1221	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Aroclor 1232	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Aroclor 1242	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Aroclor 1248	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Aroclor 1254	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.332 J	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.244 J	0.236 J	0.982 J	0.436 UJ	0.961 J	0.387 UJ
	Aroclor 1260	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.0624 U	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.129 U	0.0700 U	0.209 UJ	0.436 UJ	0.279 UJ	0.387 UJ
	Total PCBs	2	2	3	3	2	1	0.0605 U	0.0615 U	0.0598 U	0.332 J	0.340 UJ	0.359 UJ	0.454 UJ	0.477 UJ	0.244 J	0.236 J	0.982 J	0.436 UJ	0.961 J	0.387 UJ

Notes:

All units in mg/kg.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-69			SD-70			SD-71		SD-72		SD-73		SD-74	SD-75	SD-76	SD-77
		Sample Depth (ft.):		Sample Date:		0-0.5	4-4.5	0-0.5	0-0.5	1.5-2	0-0.5	3-3.5	0-0.5	1.5-2	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.107 U	0.260 UJ	0.0685 U	
	Aroclor 1221	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.107 U	0.260 UJ	0.0685 U	
	Aroclor 1232	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.107 U	0.260 UJ	0.0685 U	
	Aroclor 1242	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.107 U	0.260 UJ	0.0685 U	
	Aroclor 1248	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.107 U	0.260 UJ	0.0685 U	
	Aroclor 1254	2	2	3	3	2	1	0.368 J	0.397 UJ	0.0759 U	0.0899 J	7.99 J	1.15 J	0.336 UJ	0.526 J	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.612 J	0.260 UJ	0.386 J	
	Aroclor 1260	2	2	3	3	2	1	0.165 UJ	0.397 UJ	0.0759 U	0.0675 U	0.349 UJ	0.359 UJ	0.336 UJ	0.416 UJ	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.204 J	0.260 UJ	0.134 J	
	Total PCBs	2	2	3	3	2	1	0.368 J	0.397 UJ	0.0759 U	0.0899 J	7.99 J	1.15 J	0.336 UJ	0.526 J	0.151 U	0.213 UJ	0.210 UJ	0.253 UJ	0.816 J	0.260 UJ	0.520 J	

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 - 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SD-78	SD-79	SD-80	SD-81	SD-82	SD-83	SD-84	OF-1	OF-2	OF-3	OF-4	OF-5	
		Sample Depth (ft.):						0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
		Sample Date:						12/8/2008	12/8/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/10/2008	12/10/2008	12/10/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA													
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Aroclor 1221	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Aroclor 1232	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Aroclor 1242	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Aroclor 1248	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Aroclor 1254	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.183 J	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0819 J	0.117 J	0.0553 U	1.07 J	0.963 J
	Aroclor 1260	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.167 UJ	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0638 U	0.0666 U	0.0553 U	0.0595 U	0.0641 U
	Total PCBs	2	2	3	3	2	1	0.238 UJ	0.206 UJ	0.297 UJ	0.183 J	0.369 UJ	0.232 UJ	0.324 UJ	0.0558 U	0.0819 J	0.117 J	0.0553 U	1.07 J	0.963 J

Notes:

All units in mg/kg.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 and 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		SB-01		SB-02		SB-03		SB-04		SB-05		SB-06		SB-07		SB-08					
		Sample Depth (ft.):		0-0.5	5.5-6	0.5-1	9.5-10	0.5-1	9.5-10	0.5-1	4.5-5	0.5-1	7.5-8	0.5-1	8.5-9	0.5-1	8.5-9	0.5-1	9.5-10				
		Sample Date:		11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007	11/7/2007			
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.0591 U	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1221	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.0591 U	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1232	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.0591 U	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1242	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.0591 U	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1248	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.0591 U	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1254	2	2	3	3	2	1	0.177 *	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.149 *	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Aroclor 1260	2	2	3	3	2	1	0.0561 U	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.109 *	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U
	Total PCBs	2	2	3	3	2	1	0.177	0.0560 U	0.0543 U	0.0561 U	0.0519 U	0.0516 U	0.0514 U	0.0538 U	0.0562 U	0.0557 U	0.258	0.0500 U	0.0538 U	0.0516 U	0.0564 U	0.0539 U

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value,
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect,
Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results
(b) - The sample was collected at the same location as the sample SDR-4.

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 and 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-09		SB-10		SB-11		SB-12		SB-13		SB-14			SB-15		SDR-1
		Sample Depth (ft.):						0.5-1	6.5-7	0.5-1	8.5-9	0.5-1	6.5-7	0.5-1	5.5-6	0.5-1	9.5-10	0.5-1	9-9.5	12.5-13	0.5-1	7.5-8	0-0.2
		Sample Date:						11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.0505 U	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1221	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.0505 U	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1232	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.0505 U	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1242	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.0505 U	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1248	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.0505 U	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1254	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.782 *	0.0565 U	0.557 *	0.112 *	0.0519 U	0.0512 U	0.0553 U	0.0801 U
	Aroclor 1260	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.0520 U	0.0565 U	0.0503 U	0.238 *	0.0519 U	0.137 *	0.0553 U	0.0801 U
	Total PCBs	2	2	3	3	2	1	0.0602 U	0.0500 U	0.0553 U	0.0583 U	0.0527 U	0.0550 U	0.0591 U	0.0501 U	0.782	0.0565 U	0.557	0.350	0.0519 U	0.137	0.0553 U	0.0801 U

Notes:
All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **Bold** indicate the compound was detected.
Values shown in Bold and shaded type exceed one or more of the listed Method 1 standards.
Values shown in Bold and outlined exceed TSCA but are less than the listed Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
RC S-1 is listed for reference purposes only.
* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.
(a) - The sample was reextracted and reanalyzed to confirm the results
(b) - The sample was collected at the same location as the sample SDR-4.

Table 1
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2007 and 2008
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SDR-2	SDR-3	SDR-4	OF-DS-1	SDR-5	SLP-01	SLP-02	SLP-03	SLP-04	SLP-05	SLP-06		SLP-07	SLP-08	SLP-09	SLP-10	
		Sample Depth (ft.):						0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
		Sample Date:						12/9/2008	12/9/2008	12/10/2008	11/25/2008	12/10/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/10/2008	12/10/2008	12/10/2008	12/10/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA																	
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1221	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1232	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1242	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1248	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1254	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Aroclor 1260	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	
	Total PCBs	2	2	3	3	2	1	0.0658 U	0.0953 U	0.149 U	0.257 UJ	0.0700 U	0.0568 U	0.0572 U	0.0582 U	0.0576 U	0.0550 U	0.0583 U	0.0591 U	0.0587 U	0.0556 U	0.0575 U	0.0575 U	

Notes:

All units in mg/kg.
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value.
U - Compound was not detected at specified quantitation limit.
UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded** type exceed one or more of the listed Method 1 standards.

Values shown in **Bold and outlined** exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

RC S-1 is listed for reference purposes only.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

(a) - The sample was reextracted and reanalyzed to confirm the results

(b) - The sample was collected at the same location as the sample SDR-4.

Table 2
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SED-11A-A	SED-11A-B		SED-11A-C	SED-11A-D	SED-11A-E	SED-11A-F	SED-11A-G		SED-11A-H		SED-11A-I		SED-
		Sample Depth (ft.):						0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	3-3.5	0-0.5	2.5-3	0-0.5	4-4.5	0-0.5	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009
PAHs (mg/kg)	2-Chloronaphthalene	NS	NS	NS	NS	1,000	N/A	NA													
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA													
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA													
	Acenaphthylene	600	10	600	10	1	N/A	NA													
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA													
	Benz[a]anthracene	7	7	40	40	7	N/A	NA													
	Benzo[a]pyrene	2	2	4	4	2	N/A	NA													
	Benzo[b]fluoranthene	7	7	40	40	7	N/A	NA													
	Benzo[g,h,i]perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA													
	Benzo[k]fluoranthene	70	70	400	400	70	N/A	NA													
	Chrysene	70	70	400	400	70	N/A	NA													
	Dibenz[a,h]anthracene	0.7	0.7	4	4	0.7	N/A	NA													
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA													
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA													
	Indeno[1,2,3-cd]pyrene	7	7	40	40	7	N/A	NA													
	Naphthalene	40	500	40	1,000	4	N/A	NA													
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA													
Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB Aroclors (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Aroclor 1221	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Aroclor 1232	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Aroclor 1242	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Aroclor 1248	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Aroclor 1254	2	2	3	3	2	1	20.6 J	705 J	805 J	9.82 J	838 J	31.3 J	5.50 J	0.616	0.125 U	0.307 U	0.251 U	4.71 *	0.245 U	0.854 *
	Aroclor 1260	2	2	3	3	2	1	0.812 U	19.3 UJ	42.0 UJ	0.669 UJ	30.9 UJ	1.70 UJ	0.485 UJ	0.275 U	0.125 U	0.307 U	0.251 U	0.233 U	0.245 U	0.162 U
	Total PCBs	2	2	3	3	2	1	20.6 J	705 J	805 J	9.82 J	838 J	31.3 J	5.50 J	0.616	0.125 U	0.307 U	0.251 U	4.71	0.245 U	0.854
PCB Congeners (pg/g)	81-TeCB	NS	NS	NS	NS	NS	N/A	NA													
	77-TeCB	NS	NS	NS	NS	NS	N/A	NA													
	123-PeCB	NS	NS	NS	NS	NS	N/A	NA													
	118-PeCB	NS	NS	NS	NS	NS	N/A	NA													
	114-PeCB	NS	NS	NS	NS	NS	N/A	NA													
	105-PeCB	NS	NS	NS	NS	NS	N/A	NA													
	126-PeCB	NS	NS	NS	NS	NS	N/A	NA													
	167-HxCB	NS	NS	NS	NS	NS	N/A	NA													
	156,157-HxCB	NS	NS	NS	NS	NS	N/A	NA													
	169-HxCB	NS	NS	NS	NS	NS	N/A	NA													
	189-HpCB	NS	NS	NS	NS	NS	N/A	NA													
Metals (mg/kg)	Antimony	20	20	30	30	20	N/A	NA													
	Arsenic	20	20	20	20	20	N/A	NA													
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA													
	Beryllium	100	100	200	200	100	N/A	NA													
	Cadmium	2	2	30	30	2	N/A	NA													
	Chromium	30	30	200	200	30	N/A	NA													
	Lead	300	300	300	300	300	N/A	NA													
	Nickel	20	20	700	700	20	N/A	NA													
	Selenium	400	400	800	800	400	N/A	NA													
	Silver	100	100	200	200	100	N/A	NA													
	Thallium	8	8	60	60	8	N/A	NA													
	Vanadium	600	600	1,000	1,000	600	N/A	NA													
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA													
	Mercury	20	20	30	30	20	N/A	NA													
Total Organic Carbon (%)	Rep1	N/A	N/A	N/A	N/A	N/A	N/A	NA													
	Rep2	N/A	N/A	N/A	N/A	N/A	N/A	NA													

Table 2
 Summary of Analytical Results for Wetland Sediment and Soil Samples - 2009
 Keith Middle School
 New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						1A-J		SED-11A-K				SED-11A-L		SED-11A-M		SED-11A-N		SLP-11A-1	SLP-11A-2	SLP-11A-3	SLP-11A-4	SLP-12	SLP-13	SLP-14			
		Sample Depth (ft.):						3.33-3.67	0-0.5	0-0.5	4.5-5	0-0.5	3.33-3.67	0-0.5	3-3.5	0-0.5	5.16-5.67	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	Sample Date:	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	8/12/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	Field Dup	
PAHs (mg/kg)	2-Chloronaphthalene	NS	NS	NS	NS	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Benz[a]anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Benzo[a]pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Benzo[b]fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Benzo[g,h,i]perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[k]fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Dibenz[a,h]anthracene	0.7	0.7	4	4	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Indeno[1,2,3-cd]pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB Aroclors (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.243 U	0.314 U	0.411 U	0.333 U	0.145 U	0.165 U	0.145 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Aroclor 1221	2	2	3	3	2	1	0.243 U	0.314 U	0.411 U	0.333 U	0.145 U	0.165 U	0.145 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Aroclor 1232	2	2	3	3	2	1	0.243 U	0.314 U	0.411 U	0.333 U	0.145 U	0.165 U	0.145 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Aroclor 1242	2	2	3	3	2	1	0.243 U	0.314 U	0.411 U	0.333 U	0.145 U	0.165 U	0.145 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Aroclor 1248	2	2	3	3	2	1	0.243 U	0.314 U	2.51 *	0.333 U	0.145 U	0.165 U	0.145 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Aroclor 1254	2	2	3	3	2	1	0.243 U	7.65 *	9.78 *	0.333 U	1.62 *	0.165 U	0.165 U	3.11 *	0.362 U	0.654 *	0.175 U	0.0790 J	0.0610 U	0.0593 U	0.0586 U	3.34 *	0.394 *	0.0568 U	0.0571 U	0.0571 U		
	Aroclor 1260	2	2	3	3	2	1	0.243 U	0.314 U	0.411 U	0.333 U	0.165 U	0.165 U	0.165 U	0.362 U	0.225 U	0.175 U	0.0615 U	0.0610 U	0.0593 U	0.0586 U	0.147 U	0.0548 U	0.0568 U	0.0571 U	0.0571 U			
	Total PCBs	2	2	3	3	2	1	0.243 U	7.65	12.29	0.333 U	1.827	0.165 U	0.165 U	3.541	0.362 U	0.654	0.175 U	0.0790 J	0.0610 U	0.0593 U	0.0586 U	3.34	0.394	0.0568 U	0.0571 U	0.0571 U		
PCB Congeners (pg/g)	81-TeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	77-TeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	123-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	118-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	114-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	105-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	126-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	167-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	156,157-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	169-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
189-HpCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Metals (mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Total Organic Carbon (%)	Rep1	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Rep2	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Table 2
Summary of Analytical Results for Wetland Sediment and Soil Samples - 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SLP-15	SLP-16	SLP-17	SLP-18	SLP-19	SLP-20	SLP-21	SLP-22	SLP-23	SLP-24	SLP-25	SLP-26	SLP-27	OF-5A	OF-5B
		Sample Depth (ft.):						0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
		Sample Date:						8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009	8/13/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA															
PAHs (mg/kg)	2-Chloronaphthalene	NS	NS	NS	NS	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[a]anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[a]pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[b]fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[g,h,i]perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo[k]fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz[a,h]anthracene	0.7	0.7	4	4	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno[1,2,3-cd]pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB Aroclors (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.111 U	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0643 U	0.0613 U
	Aroclor 1221	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.111 U	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0643 U	0.0613 U
	Aroclor 1232	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.111 U	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0643 U	0.0613 U
	Aroclor 1242	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.111 U	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0643 U	0.0613 U
	Aroclor 1248	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.184 *	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0882 *	0.0613 U
	Aroclor 1254	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.314 *	0.389 *	0.132 *	0.0554 U	0.0553 U	0.0515 U	0.0747 *	0.0585 U	0.0573 U	0.0564 U	0.306 *	0.0613 U
	Aroclor 1260	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.114 U	0.111 U	0.0531 U	0.0554 U	0.0553 U	0.0515 U	0.0579 U	0.0585 U	0.0573 U	0.0564 U	0.0643 U	0.0613 U
	Total PCBs	2	2	3	3	2	1	0.0557 U	0.0533 U	0.0547 U	0.314	0.573	0.132	0.0554 U	0.0553 U	0.0515 U	0.0747	0.0585 U	0.0573 U	0.0564 U	0.3942 *	0.0613 U
PCB Congeners (pg/g)	81-TeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	77-TeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	123-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	118-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	114-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	105-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	126-PeCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	167-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	156,157-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	169-HxCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
189-HpCB	NS	NS	NS	NS	NS	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals (mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (%)	Rep1	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Rep2	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3
 Summary of Analytical Results for Summit Street Right-of-Way Sediment and Soil Samples - 2009
 Keith Middle School
 New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		SD-92			SD-93		SD-94		WSB-1			WSB-2			WSB-3			WSB-4						
		Sample Depth (ft.):		0-0.5	0-0.5	1.5-2	0-0.5	2.5-3	0-0.5	1.5-2	0-1	3-4	5-6	0-1	3-4	5-6	0-1	2-3	5-6	0-1	2-3	5-6				
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009				
PAHs (mg/kg)	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Dibenz(a,h)anthracene	1	1	4	4	1	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	0.19 U	0.19 U	0.18 U	0.22 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 U	0.23 U	0.19 U	0.18 U		
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1221	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1232	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1242	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1248	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1254	2	2	3	3	2	1	1.34 *	1.06 *	0.0568 U	0.140 *	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Aroclor 1260	2	2	3	3	2	1	0.0802 U	0.0748 U	0.0568 U	0.0704 U	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
	Total PCBs	2	2	3	3	2	1	1.34	1.06	0.0568 U	0.140	0.0891 U	0.0673 U	0.0552 U	0.0601 U	0.0548 U	0.0557 U	0.0634 U	0.0562 U	0.0564 U	0.0655 U	0.0558 U	0.0550 U	0.0636 U	0.0551 U	0.0555 U
Metals	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	4.6 U	4.5 U	4.3 U	5.3 U	4.6 U	4.5 U	4.9 U	4.5 U	4.3 U	5.5 U	4.5 U	4.4 U
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	3.9	3.0	2.7 U	3.3 U	3.5	4.8	3.7	2.8 U	2.7 U	3.4 U	3.2	3.1
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	13	18	16	22	13	63	20	9.4	19	26	17	20
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	0.29 U	0.28 U	0.27 U	0.33 U	0.29 U	0.28 U	0.30 U	0.28 U	0.27 U	0.34 U	0.28 U	0.27 U
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	0.29 U	0.28 U	0.27 U	0.33 U	0.29 U	0.28 U	0.30 U	0.28 U	0.27 U	0.34 U	0.28 U	0.27 U
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	11	8.0	7.3	9.7	8.1	16	12	7.8	11	15	11	9.9
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	14	2.9	2.9	36	5.5	4.6	19	1.9	2.7	26	3.2	2.7
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	4.1	4.7	4.6	4.6	3.9	9.4	4.9	4.3	5.4	5.3	6.1	3.5
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	5.7 U	5.6 U	5.4 U	6.6 U	5.7 U	5.7 U	6.1 U	5.6 U	5.4 U	6.9 U	5.6 U	5.4 U
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	0.57 U	0.56 U	0.54 U	0.66 U	0.57 U	0.57 U	0.61 U	0.56 U	0.54 U	0.69 U	0.56 U	0.54 U
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	3.4 U	3.4 U	3.2 U	3.9 U	3.4 U	3.4 U	3.6 U	3.4 U	3.3 U	4.1 U	3.4 U	3.3 U
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	16	10	8.5	16	12	20	17	9.9	10	20	12	11
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	17	17	15	19	13	31	24	14	17	21	15	22
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	0.032	0.019 U	0.014 U	0.23	0.021 U	0.018 U	0.041	0.017 U	0.010 U	0.098	0.020 U	0.015 U

Notes:
 mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
 U - Compound was not detected at specified quantitation limit.
 Values in Bold indicate the compound was detected.
 PAHs - Polynuclear Aromatic Hydrocarbons.
 RC - Reportable Concentration.
 TSCA - Toxic Substances Control Act criteria.

Table 3
Summary of Analytical Results for Summit Street Right-of-Way Sediment and Soil Samples - 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:							WSB-5				WSB-6				WSB-7				WSB-8				
		Sample Depth (ft.):							0-1	2-3	5-6	0-1	0-1	2-3	5-6	0-1	1-2	3-4	4-5	0-1	1-2	3-4	4-5	0-1	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009
PAHs (mg/kg)	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Acenaphthylene	600	10	600	10	1	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Chrysene	70	70	400	400	70	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Dibenz(a,h)anthracene	1	1	4	4	1	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Naphthalene	40	500	40	1,000	4	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.21 U	0.18 U	0.19 U	0.25 U	0.24 U	0.20 U	0.18 U	0.26 U	0.19 U	0.19 U	NA	0.25 U	0.21 U	0.19 U	NA	NA		
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Aroclor 1221	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Aroclor 1232	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Aroclor 1242	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Aroclor 1248	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Aroclor 1254	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.114 *	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.586 *		
	Aroclor 1260	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.0733 U	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.0632 U		
	Total PCBs	2	2	3	3	2	1	0.0625 U	0.0551 U	0.0585 U	0.0729 U	0.0681 U	0.0557 U	0.0543 U	0.114	0.0611 U	NA	0.0553 U	0.0775 U	0.0609 U	NA	0.0536 U	0.586		
Metals	Antimony	20	20	30	30	20	N/A	5.0 U	4.3 U	4.5 U	5.9 U	5.8 U	4.7 U	4.4 U	6.2 U	4.5 U	4.4 U	NA	5.8 U	4.9 U	4.4 U	NA	NA		
	Arsenic	20	20	20	20	20	N/A	3.6	2.7 U	2.8 U	3.7 U	3.6 U	2.9 U	2.7 U	3.9 U	4.1	3.4	NA	3.6 U	3.4	2.8	NA	NA		
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	16	10	11	19	23	12	15	11	9.6	17	NA	12	13	22	NA	NA		
	Beryllium	100	100	200	200	100	N/A	0.32 U	0.27 U	0.28 U	0.37 U	0.36 U	0.29 U	0.27 U	0.39 U	0.28 U	0.28 U	NA	0.36 U	0.31 U	0.28 U	NA	NA		
	Cadmium	2	2	30	30	2	N/A	0.32 U	0.27 U	0.28 U	0.37 U	0.36 U	0.29 U	0.27 U	0.39 U	0.28 U	0.28 U	NA	0.36 U	0.31 U	0.28 U	NA	NA		
	Chromium	30	30	200	200	30	N/A	12	4.8	7.4	7.9	6.7	10	5.5	4.9	11	11	NA	6.1	11	8.9	NA	NA		
	Lead	300	300	300	300	300	N/A	16	1.8	4.1	45	48	5.7	1.8	21	4.0	2.6	NA	6.1	4.8	3.2	NA	NA		
	Nickel	20	20	700	700	20	N/A	4.5	2.3	2.7	3.4	3.5	4.9	3.1	2.2	4.2	3.9	NA	2.2	3.3	4.0	NA	NA		
	Selenium	400	400	800	800	400	N/A	6.3 U	5.3 U	5.7 U	7.4 U	7.2 U	5.8 U	5.4 U	7.7 U	5.7 U	5.5 U	NA	7.3 U	6.2 U	5.5 U	NA	NA		
	Silver	100	100	200	200	100	N/A	0.63 U	0.53 U	0.57 U	0.74 U	0.72 U	0.58 U	0.54 U	0.77 U	0.57 U	0.55 U	NA	0.73 U	0.62 U	0.55 U	NA	NA		
	Thallium	8	8	60	60	8	N/A	3.8 U	3.2 U	3.4 U	4.4 U	4.3 U	3.5 U	3.3 U	4.6 U	3.4 U	3.3 U	NA	4.4 U	3.7 U	3.3 U	NA	NA		
	Vanadium	600	600	1,000	1,000	600	N/A	15	6.8	7.0	21	17	13	6.9	20	17	13	NA	8.2	14	11	NA	NA		
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	18	13	12	24	28	13	9.8	11	16	18	NA	13	14	13	NA	NA		
	Mercury	20	20	30	30	20	N/A	0.072	0.020 U	0.014 U	0.11	0.068	0.020 U	0.012 U	0.077	0.016 U	0.018 U	NA	0.020 U	0.015 U	0.021 U	NA	NA		

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
PAHs - Polynuclear Aromatic Hydrocarbons.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.

Table 3
Summary of Analytical Results for Summit Street Right-of-Way Sediment and Soil Samples - 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						WSB-9			WSB-10			
		Sample Depth (ft.):						1-2	2-3	3.5-5	0-1	1-2	2-3	3.5-5
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009	6/24/2009
PAHs (mg/kg)	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Acenaphthylene	600	10	600	10	1	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Chrysene	70	70	400	400	70	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Dibenz(a,h)anthracene	1	1	4	4	1	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.51 U	NA	0.52	0.24 U	0.53 U	NA	0.39 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Naphthalene	40	500	40	1,000	4	N/A	0.51 U	NA	0.43 U	0.24 U	0.53 U	NA	0.39 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.51 U	NA	0.53	0.24 U	0.53 U	NA	0.39 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.51 U	NA	0.54	0.24 U	0.53 U	NA	0.39 U
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Aroclor 1221	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Aroclor 1232	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Aroclor 1242	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Aroclor 1248	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Aroclor 1254	2	2	3	3	2	1	0.587 *	0.585 *	NA	0.445 *	0.0845 *	0.296 *	NA
	Aroclor 1260	2	2	3	3	2	1	0.0677 U	0.0739 U	NA	0.0905 U	0.0694 U	0.0796 U	NA
	Total PCBs	2	2	3	3	2	1	0.587	0.585	NA	0.445	0.0845	0.296	NA
Metals	Antimony	20	20	30	30	20	N/A	5.9 U	NA	5.0 U	5.6 U	6.2 U	NA	9.1 U
	Arsenic	20	20	20	20	20	N/A	3.7	NA	3.9	3.5 U	3.9 U	NA	6.4
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	48	NA	41	21	20	NA	66
	Beryllium	100	100	200	200	100	N/A	0.37 U	NA	0.31 U	0.35 U	0.39 U	NA	0.57 U
	Cadmium	2	2	30	30	2	N/A	0.37 U	NA	0.31 U	0.35 U	0.39 U	NA	0.57 U
	Chromium	30	30	200	200	30	N/A	8.3	NA	7.8	6.1	4.9	NA	7.8
	Lead	300	300	300	300	300	N/A	61	NA	68	55	17	NA	39
	Nickel	20	20	700	700	20	N/A	6.6	NA	4.8	4.1	3.8	NA	5.1
	Selenium	400	400	800	800	400	N/A	7.4 U	NA	6.3 U	6.9 U	7.7 U	NA	11 U
	Silver	100	100	200	200	100	N/A	0.74 U	NA	0.63 U	0.69 U	0.77 U	NA	1.1 U
	Thallium	8	8	60	60	8	N/A	4.4 U	NA	3.8 U	4.2 U	4.6 U	NA	6.8 U
	Vanadium	600	600	1,000	1,000	600	N/A	14	NA	12	10	8.7	NA	13
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	45	NA	39	29	31	NA	45
	Mercury	20	20	30	30	20	N/A	0.064	NA	0.052	0.061	0.022 U	NA	0.10

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
PAHs - Polynuclear Aromatic Hydrocarbons.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.

Table 4
Summary of Analytical Results for ERC Sediment Samples - March 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Depth (ft.), Sample Date: TECs	ERC-SED-6		ERC-SED-6A		ERC-SED-7		ERC-SED-8		ERC-SED-9		ERC-SED-9A		ERC-SED-10		ERC-SED-11A		ERC-SED-11B		ERC-SED-12		ERC-SED-13		ERC-SED-14		ERC-SED-14A		ERC-SED-15		ERC-SED-16		ERC-SED-17		
			0-0.5 3/5/2009	0-0.25 3/5/2009	0.25-0.5 3/5/2009	0-0.5 3/5/2009																													
PAHs (mg/kg)	2-Chloronaphthalene	NS	0.0114 U	NA	NA	0.0331 U	0.0279 U	0.0219 U	0.0135 U	NA	NA	NA	0.040 U	0.0280 U	NA	NA	0.0358 U	0.0306 U	0.0127 U	NA	NA	0.0221 U	0.0616 U	0.0401 U											
	2-Methylnaphthalene	NS	0.0553	NA	NA	0.0331 U	0.0279 U	2.15	0.0135 U	NA	NA	NA	0.040 U	0.270	NA	NA	0.0358 U	0.0314	0.0127 U	NA	NA	0.0221 U	0.0616 U	0.0401 U											
	Acenaphthene	NS	0.156	NA	NA	0.0331 U	0.0279 U	7.54	0.0175	NA	NA	NA	0.040 U	1.58	NA	NA	0.0358 U	0.0876	0.0127 U	NA	NA	0.0221 U	0.0616 U	0.0401 U	0.0616 U										
	Acenaphthylene	NS	0.320	NA	NA	0.0331 U	0.0279 U	0.837	0.0298	NA	NA	NA	0.040 U	0.268	NA	NA	0.106	0.183	0.0127	NA	NA	0.0221 U	0.0616 U	0.0401 U	0.0616 U										
	Anthracene	0.057	0.594	NA	NA	0.0343	0.0279 U	21.4	0.0591	NA	NA	NA	0.040 U	1.32	NA	NA	0.131	0.252	0.0251	NA	NA	0.0394	0.0616 U	0.0401 U	0.0616 U										
	Benz[a]anthracene	0.11	1.75	NA	NA	0.106	0.0606	74.7	0.172	NA	NA	NA	0.0682	3.48	NA	NA	0.460	0.593	0.0660	NA	NA	0.0951	0.0616 U	0.0401 U	0.0616 U										
	Benzofluoranthene	0.15	1.47	NA	NA	0.0904	0.0551	69.5	0.148	NA	NA	NA	0.0561	3.31	NA	NA	0.433	0.563	0.0577	NA	NA	0.0896	0.0616 U	0.0401 U	0.0616 U										
	Benzo[b]fluoranthene	NS	1.20	NA	NA	0.105	0.0720	80.8	0.168	NA	NA	NA	0.0698	3.07	NA	NA	0.432	0.534	0.0634	NA	NA	0.110	0.0616 U	0.0401 U	0.0616 U										
	Benzo[g,h,i]perylene	NS	1.04	NA	NA	0.0835	0.0442	45.1	0.105	NA	NA	NA	0.0437	2.69	NA	NA	0.339	0.443	0.0453	NA	NA	0.0690	0.0616 U	0.0401 U	0.0616 U										
	Benzo[k]fluoranthene	NS	1.32	NA	NA	0.0748	0.0405	38.1	0.0985	NA	NA	NA	0.0490	2.18	NA	NA	0.412	0.434	0.0392	NA	NA	0.0741	0.0616 U	0.0401 U	0.0616 U										
	Chrysene	0.17	1.47	NA	NA	0.115	0.0716	72.7	0.162	NA	NA	NA	0.079	3.07	NA	NA	0.507	0.578	0.0645	NA	NA	0.110	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
	Dibenz[a,h]anthracene	0.033	0.40	NA	NA	0.106	0.0279 U	20.0	0.0404	NA	NA	NA	0.040 U	0.766	NA	NA	0.117	0.133	0.0142	NA	NA	0.0239	0.0616 U	0.0401 U	0.0616 U										
	Fluoranthene	0.42	3.02	NA	NA	0.235	0.141	153	0.348	NA	NA	NA	0.163	5.70	NA	NA	1.02	1.21	0.127	NA	NA	0.231	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
	Fluorene	0.077	0.204	NA	NA	0.0331 U	0.0279 U	8.18	0.0450	NA	NA	NA	0.0710	0.959	NA	NA	0.0921	0.214	0.0127 U	NA	NA	0.0221 U	0.0616 U	0.0401 U	0.0616 U										
	Indeno[1,2,3-cd]pyrene	NS	0.976	NA	NA	0.104	0.0424	45.6	0.102	NA	NA	NA	0.0418	2.30	NA	NA	0.316	0.382	0.0412	NA	NA	0.0634	0.0616 U	0.0401 U	0.0616 U										
	Naphthalene	0.18	0.108	NA	NA	0.0331 U	0.0279 U	6.19	0.0135 U	NA	NA	NA	0.040 U	0.396	NA	NA	0.0418	0.0537	0.0127 U	NA	NA	0.0221 U	0.0616 U	0.0401 U	0.0616 U										
	Phenanthrene	0.2	1.84	NA	NA	0.158	0.080	62.3	0.219	NA	NA	NA	0.0974	4.74	NA	NA	0.564	0.855	0.0888	NA	NA	0.156	0.0616 U	0.0401 U	0.0616 U										
Pyrene	0.2	2.59	NA	NA	0.224	0.122	120	0.302	NA	NA	NA	0.126	6.91	NA	NA	0.865	1.12	0.118	NA	NA	0.196	0.0616 U	0.0401 U	0.0616 U											
PCB Aroclors (mg/kg)	Aroclor 1016	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Aroclor 1221	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Aroclor 1232	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Aroclor 1242	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Aroclor 1248	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Aroclor 1254	NS	27.8 J	9.21 J	16.5 J	NA	NA	NA	3.43 J	0.870 J	5.07 J	0.305 J	NA	434 J	66.9 J	0.797 J	NA	NA	0.25 J	0.319 J	0.0584 U	NA													
	Aroclor 1260	NS	1.47 U	0.692 U	0.794 U	NA	NA	NA	0.216 U	0.112 U	0.360 U	0.0845 U	NA	20.6 UJ	3.37 UJ	0.0812 U	NA	NA	0.176 UJ	0.0603 U	0.0584 U	NA													
	Total PCBs	0.06	27.8 J	9.21 J	16.5 J	NA	NA	NA	3.43 J	0.870 J	5.07 J	0.305 J	NA	434 J	66.9 J	0.797 J	NA	NA	0.25 J	0.319 J	0.0584 U	NA													
PCB Congeners (pg/g)	81-TeCB	NS	20.6 U	NA	NA	NA	NA	NA	8.37 U	14.2 U	NA	NA	NA	51.2 U	NA	NA	NA	NA	6.65 U	NA															
	77-TeCB	NS	21.2 U	NA	NA	NA	NA	NA	251	433	NA	NA	NA	52.8 U	NA	NA	NA	NA	134	NA															
	123-PeCB	NS	39.3	NA	NA	NA	NA	NA	470	783	NA	NA	NA	292	NA	NA	NA	NA	113	NA															
	118-PeCB	NS	3130	NA	NA	NA	NA	NA	38,200 E	64,000 E	NA	NA	NA	24,300	NA	NA	NA	NA	7,580	NA															
	114-PeCB	NS	50.7	NA	NA	NA	NA	NA	417	806	NA	NA	NA	517	NA	NA	NA	NA	108	NA															
	105-PeCB	NS	883	NA	NA	NA	NA	NA	12,700 E	20,700 E	NA	NA	NA	7,860	NA																				

Table 5
Summary of Analytical Results for Surface Water Samples - March 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	ERC-SW-7	ERC-SW-9		ERC-SW-11A	ERC-SW-14	ERC-SW-16	ERC-SW-20	ERC-SW-21	ERC-SW-22	ERC-SW-23	ERC-SW-24	ERC-SW-25	ERC-SW-26	ERC-SW-27	ERC-SW-28		ERC-SW-29
		Sample Date:	3/5/2009	3/5/2009	3/5/2009	3/6/2009	3/6/2009	3/20/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009	7/17/2009
		Criteria*		Field Dup														Field Dup	
PAHs (ug/L)	Acenaphthene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	2-Chloronaphthalene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Fluoranthene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Naphthalene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Benzo(a)anthracene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Benzo(a)pyrene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Benzo(b)fluoranthene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Benzo(k)fluoranthene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Chrysene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Acenaphthylene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Anthracene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Benzo(ghi)perylene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Fluorene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Phenanthrene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Dibenzo(a,h)anthracene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
	Indeno(1,2,3-cd)Pyrene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA										
Pyrene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA											
2-Methylnaphthalene	NS	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	NA											
PCB Homologues (ug/L)	Monochlorobiphenyl	NS	0.027 U	0.027 U	0.029 U	0.025 U	0.025 U	0.025 U	NA										
	Dichlorobiphenyl	NS	0.027 U	0.027 U	0.029 U	0.025 U	0.025 U	0.025 U	NA										
	Trichlorobiphenyl	NS	0.027 U	0.027 U	0.029 U	0.025 U	0.025 U	0.025 U	NA										
	Tetrachlorobiphenyl	NS	0.054 U	0.053 U	0.059 U	0.051 U	0.050 U	0.050 U	NA										
	Pentachlorobiphenyl	NS	0.054 U	0.053 U	0.059 U	0.051 U	0.050 U	0.050 U	NA										
	Hexachlorobiphenyl	NS	0.054 U	0.053 U	0.059 U	0.051 U	0.050 U	0.050 U	NA										
	Heptachlorobiphenyl	NS	0.082 U	0.080 U	0.088 U	0.076 U	0.075 U	0.075 U	NA										
	Octachlorobiphenyl	NS	0.082 U	0.080 U	0.088 U	0.076 U	0.075 U	0.075 U	NA										
	Nonachlorobiphenyl	NS	0.14 U	0.13 U	0.15 U	0.13 U	0.13 U	0.13 U	NA										
	Decachlorobiphenyl	NS	0.14 U	0.13 U	0.15 U	0.13 U	0.13 U	0.13 U	NA										
Total PCB	0.014	0.14 U	0.13 U	0.15 U	0.13 U	0.13 U	0.13 U	NA											

Table 5
Summary of Analytical Results for Surface Water Samples - March 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Date: Criteria*	ERC-SW-7 3/5/2009	ERC-SW-9		ERC-SW-11A 3/6/2009	ERC-SW-14 3/6/2009	ERC-SW-16 3/20/2009	ERC-SW-20 7/17/2009	ERC-SW-21 7/17/2009	ERC-SW-22 7/17/2009	ERC-SW-23 7/17/2009	ERC-SW-24 7/17/2009	ERC-SW-25 7/17/2009	ERC-SW-26 7/17/2009	ERC-SW-27 7/17/2009	ERC-SW-28		ERC-SW-29 7/17/2009	
				3/5/2009	3/5/2009 Field Dup												7/17/2009	7/17/2009 Field Dup		
Metals, total (ug/L)	Antimony	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	50 U	NA	NA	NA	NA	NA							
	Arsenic	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	NA	NA	NA	NA	NA							
	Barium	NS	11.8	9.4	9.7	27.1	5.5	28	NA	NA	NA	NA	NA							
	Beryllium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	NA	NA	NA	NA	NA							
	Cadmium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.0 U	NA	NA	NA	NA	NA							
	Calcium	NS	NA	NA	NA	NA	NA	NA	3,100	4,900	4,600	3,500	1,700	1,900	1,600	5,300	16,000	3,700	4,800	NA
	Chromium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.60	10 U	NA	NA	NA	NA	NA							
	Lead	NS	0.50 U	0.60	0.70	0.50 U	0.50 U	10 U	NA	NA	NA	NA	NA							
	Magnesium	NS	NA	NA	NA	NA	NA	NA	470	590	750	390	280	320	270	620	1,800	380	610	NA
	Nickel	NS	0.50	0.50 U	0.50 U	0.50 U	0.50 U	25 U	NA	NA	NA	NA	NA							
	Selenium	5.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	NA	NA	NA	NA	NA							
	Silver	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	7.0 U	NA	NA	NA	NA	NA							
	Thallium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	20 U	NA	NA	NA	NA	NA							
	Vanadium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	10 U	NA	NA	NA	NA	NA							
	Zinc	NS	32.1	29.8	33.0	23.4	22.5	50 U	35	38	63	44	42	20 U	30	27	40	20 U	20 U	NA
Mercury	NS	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	NA	NA									
Metals, dissolved (ug/L)	Antimony	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	50 U	NA	NA	NA	NA	NA							
	Arsenic	150	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	NA	NA	NA	NA	NA							
	Barium	NS	12.2	8.6	8.3	26.9	1.7	25	NA	NA	NA	NA	NA							
	Beryllium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	NA	NA	NA	NA	NA							
	Cadmium	0.25	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.0 U	NA	NA	NA	NA	NA							
Chromium	74	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	10 U	NA	NA	NA	NA									
Lead	2.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	10 U	NA	NA	NA	NA									
Nickel	52	0.70	0.50 U	0.50 U	0.50	0.50 U	25 U	NA	NA	NA	NA									
Selenium	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	NA	NA	NA	NA									
Silver	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	7.0 U	NA	NA	NA	NA									
Thallium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	20 U	NA	NA	NA	NA									
Vanadium	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	10 U	NA	NA	NA	NA									
Zinc	120	35.0	30.4	29.2	21.9	18.2	50 U	NA	NA	NA	NA									
Mercury	0.77	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	NA	NA									
Hardness (ug/L)	Hardness	NS	9,400	6,800	6,600	12,000	8,200	27,000	9,200	16,000	18,000	9,500	6,300	6,800	5,300	18,000	44,000	11,000	15,000	

Notes:
All units in ug/L unless otherwise specified.
ug/L - micrograms per liter.
NA - Sample not analyzed for the listed analyte.
NS - No MADEP standards exist for this compound.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
* - EPA National Recommended Water Quality Criteria, Freshwater CCC, 2006.

Table 6
Summary of Analytical Results for ERC Surface Soil Samples - March 2009
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	ERC-SED-1		ERC-SED-2	ERC-SED-3	ERC-SED-4	ERC-SED-5
		Sample Depth (ft.):	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
		Sample Date	3/5/2009	3/5/2009	3/5/2009	3/5/2009	3/5/2009	3/5/2009
		TECs		Field Dup				
Pesticides (mg/kg)	4,4'-DDE	0.0032*	0.076 U	0.0615 U	0.0875 U	0.106	0.0725 U	0.0238 U
	4,4'-DDD	0.0049*	0.076 U	0.0615 U	0.0875 U	0.0333 U	0.0725 U	0.0238 U
	4,4'-DDT	0.0042*	0.076 U	0.0615 U	0.0875 U	0.0837	0.0725 U	0.0238 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed TECs.

TECs - Threshold Effect Concentrations, MassDEP Freshwater Sediment Screening Criteria (January 2006).

* - Criteria listed are for the sum of the isomers in this group.

Table 7
Summary of Analytical Results for Fenceline Soil Samples - Durfee Street Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-27			SB-95			SB-100		SB-101			SB-105										
		Sample Depth (ft.):*						1.0	3.5	7.0	1	4	8	1	5	1	3.5	7	1	4	7	10							
		Sample Date:						11/29/2007	11/29/2007	11/29/2007	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/5/2008	5/6/2008	5/6/2008	5/6/2008	5/6/2008						
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA																						
PAHs (mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	0.20 U	0.32	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	34.5	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Acenaphthylene	600	10	600	10	1	N/A	0.20 U	0.24 U	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	1.11 U	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.94	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	61.8	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Benzo(a)anthracene	7	7	40	40	7	N/A	0.20 U	3.12	0.19 U	0.19 U	0.20 U	0.19 U	0.35	0.19 U	0.24	77.9	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Benzo(a)pyrene	2	2	4	4	2	N/A	0.20 U	2.73	0.19 U	0.20	0.33	0.19 U	0.38	0.19 U	0.25	59.5	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	0.20 U	3.63	0.19 U	0.23	0.46	0.19 U	0.63	0.19 U	0.39	79.0	0.18 U	0.25	0.19 U	0.19 U	NA							
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	1.08	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	20.3	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	0.20 U	1.22	0.19 U	0.19 U	0.20 U	0.19 U	0.20	0.19 U	0.20 U	31.2	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Chrysene	70	70	400	400	70	N/A	0.20 U	2.98	0.19 U	0.21	0.31	0.19 U	0.43	0.19 U	0.26	71.9	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	N/A	0.20 U	0.31	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	6.84	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	3.73	0.19 U	0.32	0.62	0.19 U	0.76	0.19 U	0.47	228	0.18 U	0.28	0.19 U	0.19 U	NA							
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	0.20 U	0.34	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	42.5	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	0.20 U	1.34	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	28.6	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	2-Methylnaphthalene	80	300	80	500	1	N/A	0.20 U	0.24 U	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	16.6	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Naphthalene	40	500	40	1,000	4	N/A	0.20 U	0.24 U	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.19 U	0.20 U	46.5	0.18 U	0.21 U	0.19 U	0.19 U	NA							
	Phenanthrene	500	500	1,000	1,000	10	N/A	0.20 U	4.32	0.19 U	0.25	0.39	0.19 U	0.47	0.19 U	0.32	288	0.18 U	0.23	0.19 U	0.19 U	NA							
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	0.22	4.26	0.19 U	0.39	0.45	0.19 U	0.48	0.19 U	0.31	163	0.18 U	0.39	0.19 U	0.19 U	NA							
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.0638 U	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.0510 U	0.0529 U	0.0505 U	NA							
	Aroclor 1221	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.0638 U	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.0510 U	0.0529 U	0.0505 U	NA							
	Aroclor 1232	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.0638 U	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.0510 U	0.0529 U	0.0505 U	NA							
	Aroclor 1242	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.0638 U	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.0510 U	0.0529 U	0.0505 U	NA							
	Aroclor 1248	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.0638 U	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.0510 U	0.0529 U	0.0505 U	NA							
	Aroclor 1254	2	2	3	3	2	1	0.0845 *	1.19 *	0.0526 U	0.0865 J	1.27 J	0.0536 U	0.270 J	0.0525 U	0.0789 J	0.515 J	0.0532 U	0.155 J	0.0529 U	0.0505 U	NA							
	Aroclor 1260	2	2	3	3	2	1	0.0576 U	0.0648 U	0.0526 U	0.0580 U	0.182 J	0.0536 U	0.0595 U	0.0525 U	0.0580 U	0.0667 U	0.0532 U	0.051 U	0.0529 U	0.0505 U	NA							
Total PCBs	2	2	3	3	2	1	0.0845	1.19	0.0526 U	0.0865 J	1.452 J	0.0536 U	0.270 J	0.0525 U	0.0789 J	0.515 J	0.0532 U	0.155 J	0.0529 U	0.0505 U	NA								
PCB Homologs (mg/kg)	Monochlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.016 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Dichlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.016 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Trichlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.016 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Tetrachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.032 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Pentachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Hexachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Heptachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.049 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Octachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.049 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Nonachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.081 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	Decachlorobiphenyls	N/A	N/A	N/A	N/A	N/A	N/A	NA	0.081 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
Total PCBs	2	2	3	3	2	1	NA	0.156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA								
Metals, total (mg/kg)	Antimony	20	20	30	30	20	N/A	4.65 U	5.61 U	4.48 U	4.50 U	4.74 U	4.50 U	4.91 U	4.47 U	4.61 U	5.32 U	4.31 U	4.90 U	4.35 U	4.35 U	4.48 U							
	Arsenic	20	20	20	20	20	N/A	2.91 U	3.51 U	2.80 U	2.81 U	2.96 U	2.82 U	4.42	2.80 U	2.88 U	7.22	2.69 U	3.06 U	2.72 U	2.72 U	3.25							
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	31.1	135	6.78	41.7	135	24.8	128	15.4	60.4	314	22.2	31.2	132	58.3	24.3							
	Beryllium	100	100	200	200	100	N/A	0.30 U	0.36 U	0.28 U	0.29 U	0.67	0.29 U	0.31 U	0.28 U	0.29 U	0.34 U	0.27 U	0.31 U	0.28 U	0.28 U	0.38							
	Cadmium	2	2	30	30	2	N/A	0.30 U	1.12	0.28 U	0.29 U	0.92	0.29 U	5.17	0.28 U	0.50	4.52	0.27 U	0.31 U	0.72	0.28 U	0.28 U							
	Chromium	30	30	200	200	30	N/A	10.4	10.4	6.18	9.75	11.2	22.4	25.7	8.96	61.7	31.5	11.0	19.9	11.5	39.8	11.9							
	Lead	300	300	300	300	300	N/A	60.9	366	3.25	95.8	443	3.60	816	9.18	150	749	3.36	3.39	587	5.53	3.07							
	Nickel	20	20	700	700	20	N/A	6.10	6.70	5.59	5.20	5.15	10.3	15.1	5.90	5.96	78.9	6.38	13.3	5.30	17.0	5.11							
	Selenium	400	400	800	800	400	N/A	5.81 U	7.01 U	5.60 U	5.62 U	5.92 U	5.63 U	6.13 U	5.59 U	5.76 U	6.65 U	5.38 U	6.12 U	5.43 U	5.43 U	5.60 U							
	Silver	100	100	200	200	100	N/A	0.59 U	0.71 U	0.56 U	0.57 U	1.57	0.60	1.22	0.56 U	0.69	3.99	0.54 U	0.67	0.61	0.68	1.02							
	Thallium	8	8	60	60	8	N/A	3.49 U	4.21 U	3.36 U	3.38 U	3.56 U	3.38 U	3.68 U	3.35 U	3.46 U	3.99 U	3.23 U	3.68 U	3.26 U	3.26 U	3.36 U							
	Vanadium	600	600	1,000	1,000	600	N/A	14.1	18.6	9.44	13.6	21.5	21.9	17.5	12.7	19.1	21.9	17.8	24.2	14.1	27.8	13.3							
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	41.2	254	23.0	64.9	168	27.9	497	26.6	131	1050	35.6	41.6	204	34.5	26.3							
	Mercury	20	20	30	30	20	N/A	0.046	0.174	0.017	0.120	0.432	0.011 U	0.557	0.013	0.201	0.557	0.022 U	0.112	0.019	0.010 U	0.010 U							

Table 7
Summary of Analytical Results for Fenceline Soil Samples - Durfee Street Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						SB-152				SB-153		SB-154	
		Sample Depth (ft.):						1	1	4	7	1	8	1	6
		Sample Date:						5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA		Field Dup						
PAHs (mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1221	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1232	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1242	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1248	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1254	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.108 J	0.0532 U	0.0560 U	0.0543 U
	Aroclor 1260	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.0541 U	0.0532 U	0.0560 U	0.0543 U
	Total PCBs	2	2	3	3	2	1	0.0546 U	0.0537 U	0.0539 U	0.0511 U	0.108 J	0.0532 U	0.0560 U	0.0543 U
PCB Homologs (mg/kg)	Monochlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.013 U	NA	NA	NA	NA	NA	NA
	Dichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.013 U	NA	NA	NA	NA	NA	NA
	Trichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.013 U	0.013 U	NA	NA	NA	NA	NA	NA
	Tetrachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.026 U	0.026 U	NA	NA	NA	NA	NA	NA
	Pentachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.026 U	0.026 U	NA	NA	NA	NA	NA	NA
	Hexachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.026 U	0.026 U	NA	NA	NA	NA	NA	NA
	Heptachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.039 U	0.039 U	NA	NA	NA	NA	NA	NA
	Octachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.039 U	0.039 U	NA	NA	NA	NA	NA	NA
	Nonachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.065 U	0.066 U	NA	NA	NA	NA	NA	NA
	Decachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	0.065 U	0.066 U	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.065 U	0.066 U	NA	NA	NA	NA	NA	NA
Metals (mg/kg)	Antimony	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA
	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Analytical Results for Fenceline Soil Samples - Durfee Street Properties
New Bedford, Massachusetts

Notes:

All units in mg/kg unless otherwise specified.

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable/available.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

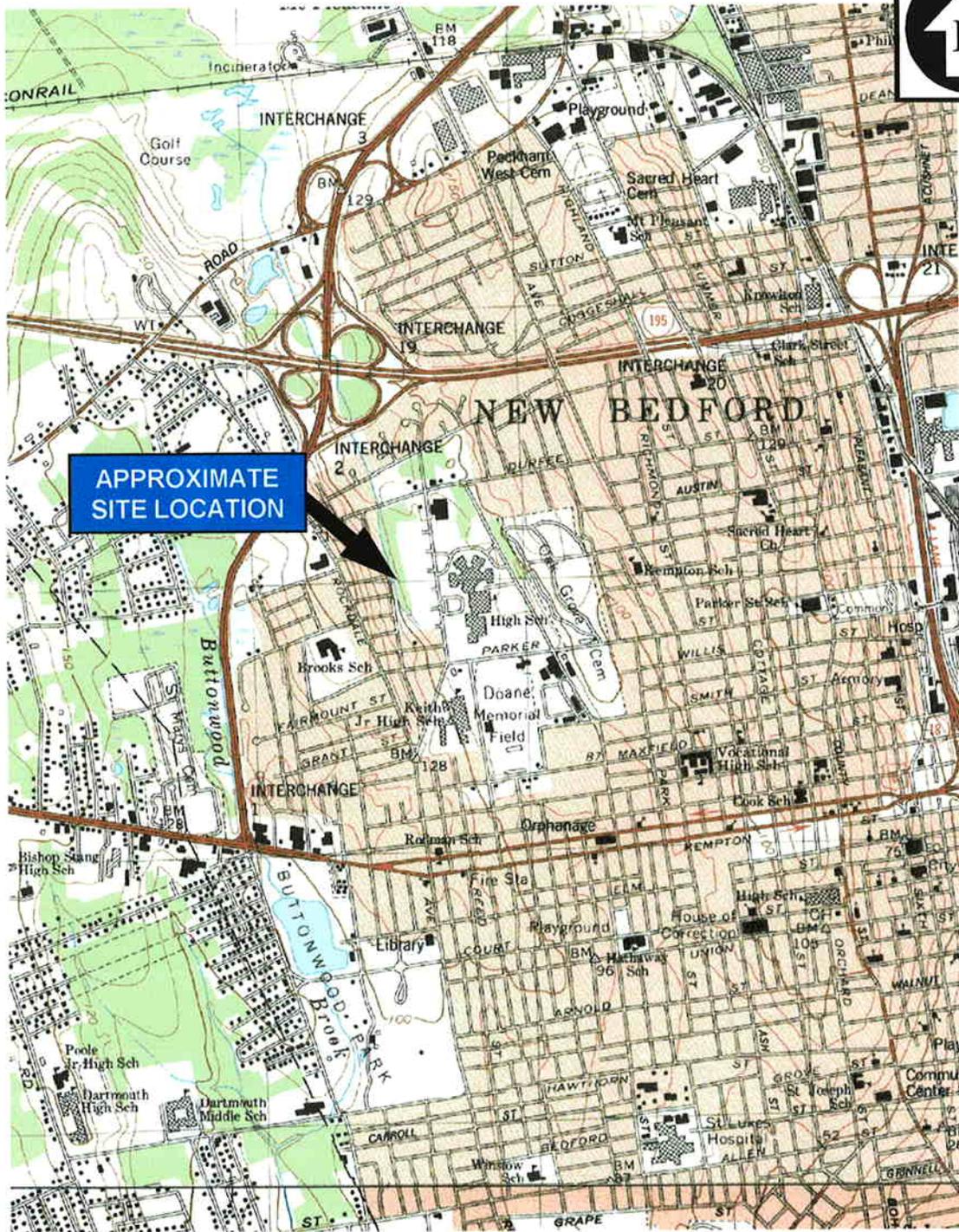
RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - The sample exhibits altered PCB pattern; best possible Aroclor match reported.

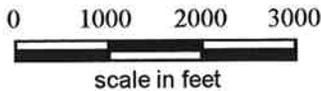
** - For reference purposes only.

FIGURES



**APPROXIMATE
SITE LOCATION**

BASE MAP IS A PORTION OF THE FOLLOWING 7.5' X 15' USGS
TOPOGRAPHIC QUADRANGLES: NEW BEDFORD NORTH, MA, 1979;
NEW BEDFORD SOUTH, MA 1977



QUADRANGLE
LOCATION

**KEITH MIDDLE SCHOOL WETLAND
PCB CONTAMINATED SEDIMENTS
NEW BEDFORD, MASSACHUSETTS**

SITE LOCATION MAP

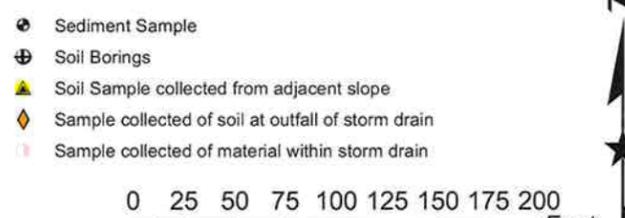
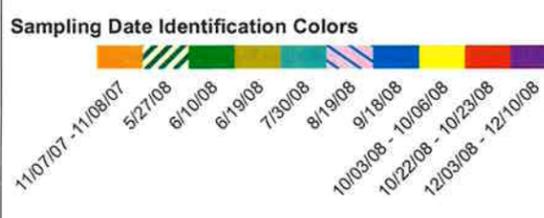
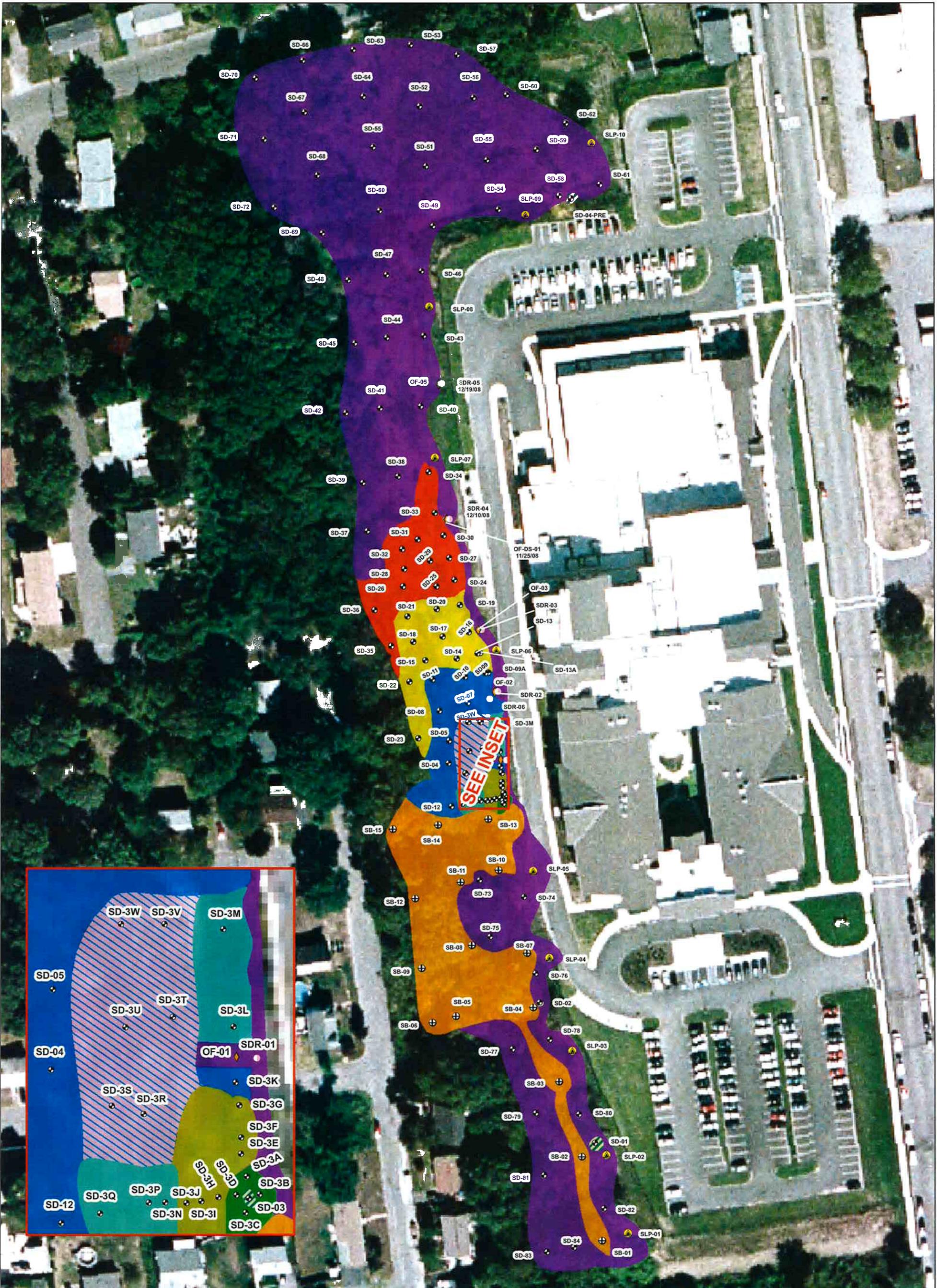


Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
978-970-5800

**FIGURE
1**

Drawn: HWB
Checked: DS

SCALE: AS SHOWN
Date: JULY 2008

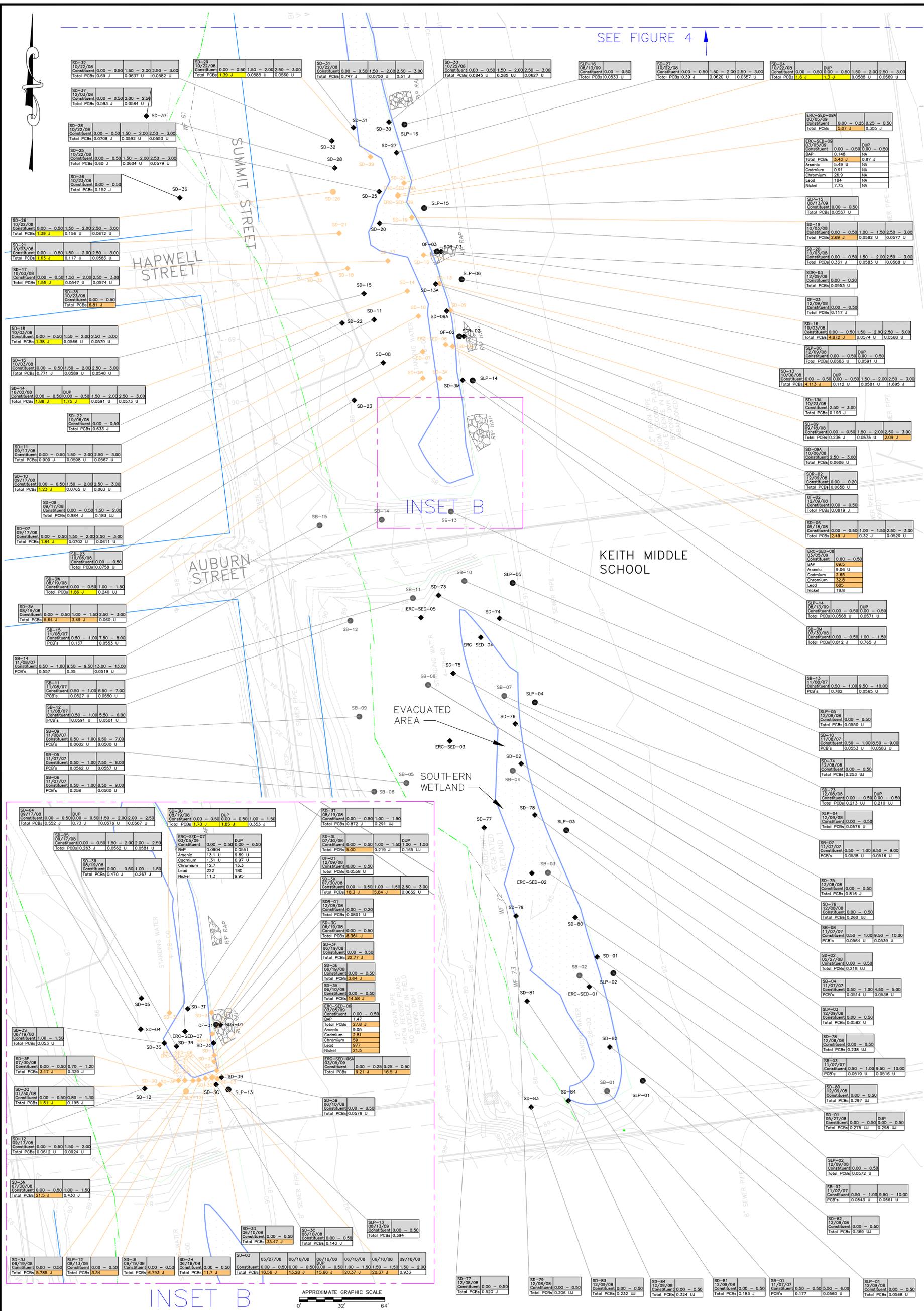


TRC 650 Suffolk St.
Wannalancit Mills
Lowell, MA 01854

SAMPLING LOCATION PLAN
NEW BEDFORD, MA

FIGURE 2 | MARCH 2009

SEE FIGURE 4



NOTES:
 ALL UNITS IN MG/KG UNLESS OTHERWISE SPECIFIED.
 MG/KG - MILLIGRAMS PER KILOGRAM (DRY WEIGHT).
 DUP - FIELD DUPLICATE SAMPLE.
 J - ESTIMATED VALUE.
 NA - SAMPLE NOT ANALYZED FOR THE LISTED ANALYTE.
 N/A - NOT APPLICABLE.
 PCBs - POLYCHLORINATED BIPHENYLS.
 RCs - REPORTABLE CONCENTRATIONS.
 TSCA - TOXIC SUBSTANCES CONTROL ACT.
 U - COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
 UJ - ESTIMATED NON-DETECT.

SAMPLE LOCATION	SD-35
SAMPLE DATE	10/23/08
CONSTITUENT	0.00 - 0.50
SAMPLE DEPTH RANGE IN FEET	
TOTAL PCBs	6.81 J

Summary of Regulatory Comparison Criteria for Soil (mg/kg)

Contaminant Names	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA
<i>Benz(a)pyrene (BAP)</i>	2	2	4	4	2	N/A
<i>Total PCBs</i>	2	2	2	2	2	1
<i>Arsenic</i>	20	20	20	20	20	N/A
<i>Barium</i>	1000	1000	3000	3000	1000	N/A
<i>Cadmium</i>	2	2	30	30	2	N/A
<i>Chromium</i>	30	30	200	200	30	N/A
<i>Lead</i>	300	300	300	300	300	N/A

VALUES SHOWN IN PEACH BACKGROUND EXCEED ONE OR MORE OF THE LISTED MASSDEP METHOD 1 STANDARDS
 VALUES SHOWN IN YELLOW BACKGROUND EXCEED TSCA BUT ARE LESS THAN THE LISTED MASSDEP METHOD 1 STANDARDS

APPROXIMATE GRAPHIC SCALE
 0' 32' 64'

KEITH MIDDLE SCHOOL
 NEW BEDFORD, MASSACHUSETTS

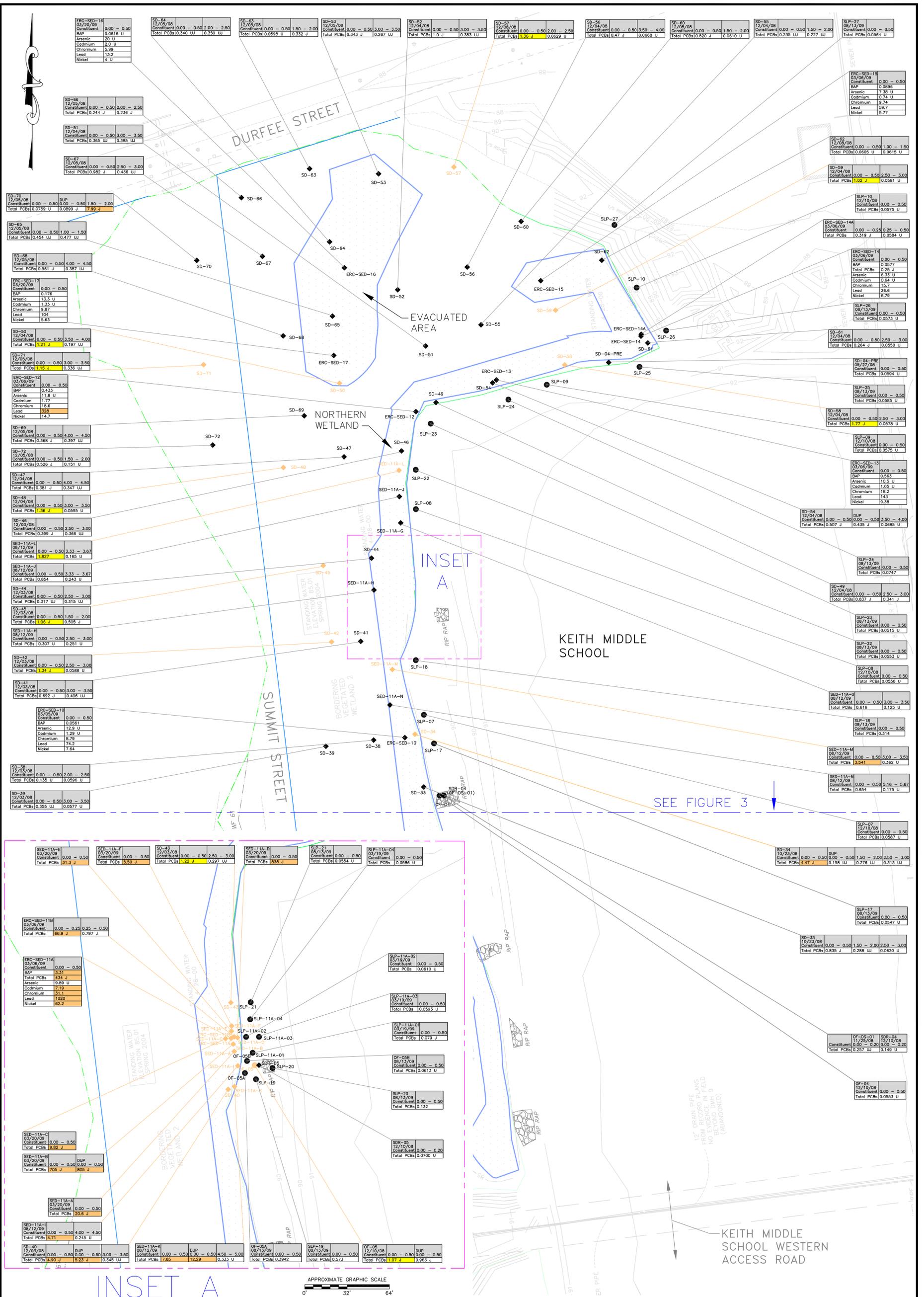
ANALYTICAL RESULTS SUMMARY MAP
 Southern Portion of Wetland TRC Data

TRC
 Wannalancit Mills
 650 Suffolk Street
 Lowell, MA 01854
 (978) 970-5800

FIGURE 3

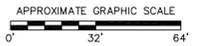
DRAWN BY: PZ
 CHECKED BY: JS

DATE:
 SEPTEMBER 2009



SEE FIGURE 3

INSET A



NOTES:
 ALL UNITS IN MG/KG UNLESS OTHERWISE SPECIFIED.
 MG/KG - MILLIGRAMS PER KILOGRAM (DRY WEIGHT).
 DUP - FIELD DUPLICATE SAMPLE.
 J - ESTIMATED VALUE.
 NA - SAMPLE NOT ANALYZED FOR THE LISTED ANALYTE.
 N/A - NOT APPLICABLE.
 PCBs - POLYCHLORINATED BIPHENYLS.
 RCS - REPORTABLE CONCENTRATIONS.
 TSCA - TOXIC SUBSTANCES CONTROL ACT.
 U - COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTITATION LIMIT.
 UJ - ESTIMATED NON-DETECTED.

SAMPLE LOCATION	SD-35
SAMPLE DATE	10/23/08
CONSTITUENT	0.00 - 0.50
TOTAL PCBs	6.81 J

SAMPLE DEPTH RANGE IN FEET	0.00 - 0.50
TOTAL PCBs	6.81 J

Contaminant Names	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA
<i>Benz(a)pyrene (BAP)</i>	2	2	4	4	2	N/A
<i>Total PCBs</i>	2	2	2	2	2	1
<i>Arsenic</i>	20	20	20	20	20	N/A
<i>Barium</i>	1000	1000	3000	3000	1000	N/A
<i>Cadmium</i>	2	2	30	30	2	N/A
<i>Chromium</i>	30	30	200	200	30	N/A
<i>Lead</i>	300	300	300	300	300	N/A

VALUES SHOWN IN PEACH BACKGROUND EXCEED ONE OR MORE OF THE LISTED MASSDEP METHOD 1 STANDARDS

VALUES SHOWN IN YELLOW BACKGROUND EXCEED TSCA BUT ARE LESS THAN THE LISTED MASSDEP METHOD 1 STANDARDS



KEITH MIDDLE SCHOOL
 NEW BEDFORD, MASSACHUSETTS

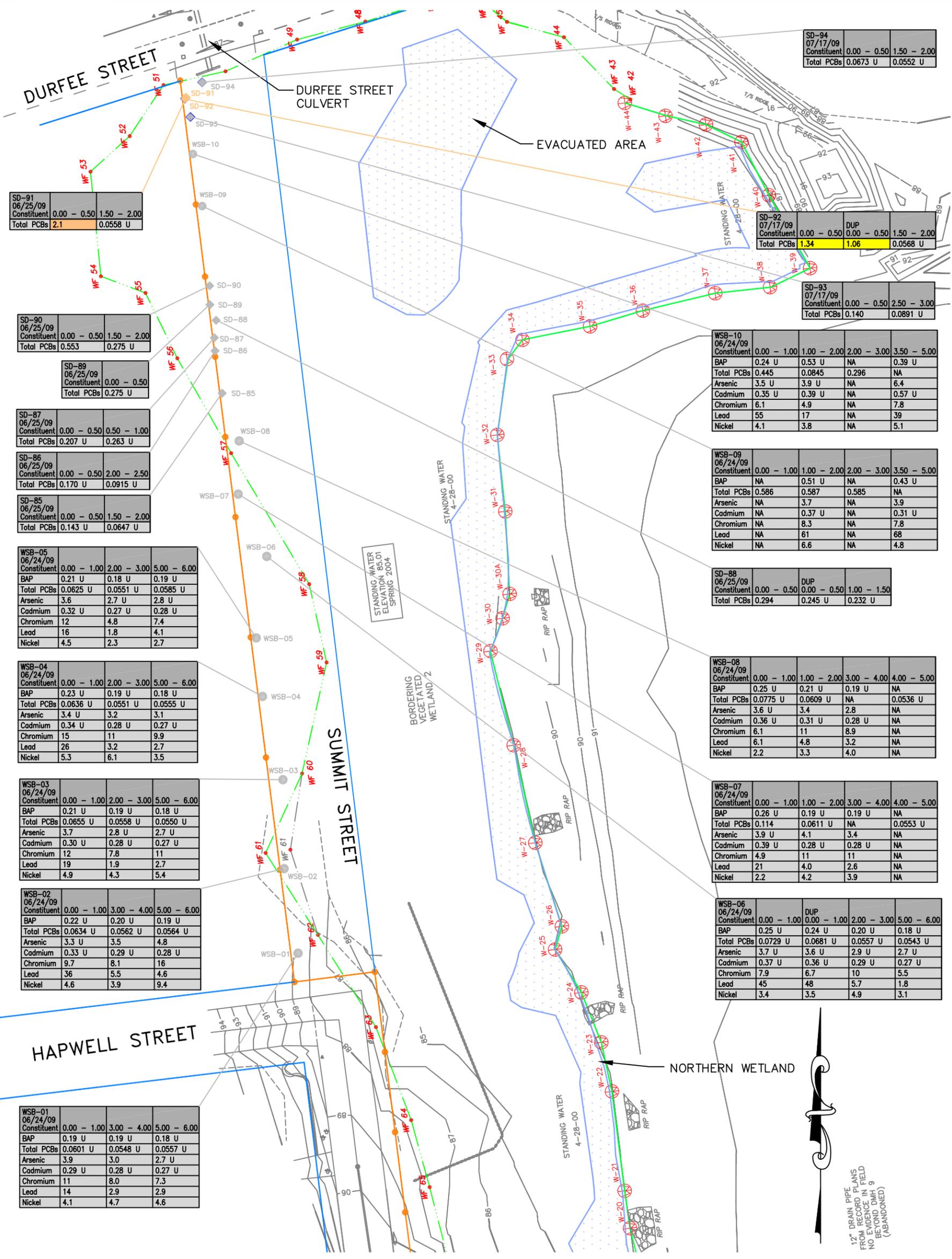
ANALYTICAL RESULTS SUMMARY MAP
 Northern Portion of Wetland TRC Data

TRC Wannancott Mills
 650 Suffolk Street
 Lowell, MA 01854
 (978) 970-5800

FIGURE 4

DRAWN BY: PZ
 CHECKED BY: JS

DATE: SEPTEMBER 2009



SD-91 06/25/09 Constituent	0.00 - 0.50	1.50 - 2.00
Total PCBs	2.1	0.0558 U

SD-90 06/25/09 Constituent	0.00 - 0.50	1.50 - 2.00
Total PCBs	0.553	0.275 U

SD-89 06/25/09 Constituent	0.00 - 0.50	
Total PCBs	0.275 U	

SD-87 06/25/09 Constituent	0.00 - 0.50	0.50 - 1.00
Total PCBs	0.207 U	0.263 U

SD-86 06/25/09 Constituent	0.00 - 0.50	2.00 - 2.50
Total PCBs	0.170 U	0.0915 U

SD-85 06/25/09 Constituent	0.00 - 0.50	1.50 - 2.00
Total PCBs	0.143 U	0.0647 U

WSB-05 06/24/09 Constituent	0.00 - 1.00	2.00 - 3.00	5.00 - 6.00
BAP	0.21 U	0.18 U	0.19 U
Total PCBs	0.0625 U	0.0551 U	0.0585 U
Arsenic	3.6	2.7 U	2.8 U
Cadmium	0.32 U	0.27 U	0.28 U
Chromium	12	4.8	7.4
Lead	16	1.8	4.1
Nickel	4.5	2.3	2.7

WSB-04 06/24/09 Constituent	0.00 - 1.00	2.00 - 3.00	5.00 - 6.00
BAP	0.23 U	0.19 U	0.18 U
Total PCBs	0.0636 U	0.0551 U	0.0555 U
Arsenic	3.4 U	3.2	3.1
Cadmium	0.34 U	0.28 U	0.27 U
Chromium	15	11	9.9
Lead	26	3.2	2.7
Nickel	5.3	6.1	3.5

WSB-03 06/24/09 Constituent	0.00 - 1.00	2.00 - 3.00	5.00 - 6.00
BAP	0.21 U	0.19 U	0.18 U
Total PCBs	0.0655 U	0.0558 U	0.0550 U
Arsenic	3.7	2.8 U	2.7 U
Cadmium	0.30 U	0.28 U	0.27 U
Chromium	12	7.8	11
Lead	19	1.9	2.7
Nickel	4.9	4.3	5.4

WSB-02 06/24/09 Constituent	0.00 - 1.00	3.00 - 4.00	5.00 - 6.00
BAP	0.22 U	0.20 U	0.19 U
Total PCBs	0.0634 U	0.0562 U	0.0564 U
Arsenic	3.3 U	3.5	4.8
Cadmium	0.33 U	0.29 U	0.28 U
Chromium	9.7	8.1	16
Lead	36	5.5	4.6
Nickel	4.6	3.9	9.4

WSB-01 06/24/09 Constituent	0.00 - 1.00	3.00 - 4.00	5.00 - 6.00
BAP	0.19 U	0.19 U	0.18 U
Total PCBs	0.0601 U	0.0548 U	0.0557 U
Arsenic	3.9	3.0	2.7 U
Cadmium	0.29 U	0.28 U	0.27 U
Chromium	11	8.0	7.3
Lead	14	2.9	2.9
Nickel	4.1	4.7	4.6

SD-94 07/17/09 Constituent	0.00 - 0.50	1.50 - 2.00
Total PCBs	0.0673 U	0.0552 U

SD-92 07/17/09 Constituent	0.00 - 0.50	DUP 0.00 - 0.50	1.50 - 2.00
Total PCBs	1.34	1.06	0.0568 U

SD-93 07/17/09 Constituent	0.00 - 0.50	2.50 - 3.00
Total PCBs	0.140	0.0891 U

WSB-10 06/24/09 Constituent	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.50 - 5.00
BAP	0.24 U	0.53 U	NA	0.39 U
Total PCBs	0.445	0.0845	0.296	NA
Arsenic	3.5 U	3.9 U	NA	6.4
Cadmium	0.35 U	0.39 U	NA	0.57 U
Chromium	6.1	4.9	NA	7.8
Lead	55	17	NA	39
Nickel	4.1	3.8	NA	5.1

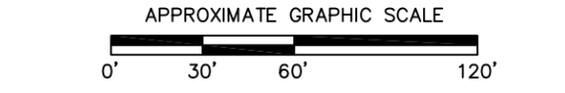
WSB-09 06/24/09 Constituent	0.00 - 1.00	1.00 - 2.00	2.00 - 3.00	3.50 - 5.00
BAP	NA	0.51 U	NA	0.43 U
Total PCBs	0.586	0.587	0.585	NA
Arsenic	NA	3.7	NA	3.9
Cadmium	NA	0.37 U	NA	0.31 U
Chromium	NA	8.3	NA	7.8
Lead	NA	61	NA	68
Nickel	NA	6.6	NA	4.8

SD-88 06/25/09 Constituent	0.00 - 0.50	DUP 0.00 - 0.50	1.00 - 1.50
Total PCBs	0.294	0.245 U	0.232 U

Summary of Regulatory Comparison Criteria for Soil (mg/kg)						
Contaminant Names	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA
Benzo(a)pyrene (BAP)	2	2	4	4	2	N/A
Total PCBs	2	2	3	3	2	1
Arsenic	20	20	20	20	20	N/A
Cadmium	2	2	30	30	2	N/A
Chromium	30	30	200	200	30	N/A
Lead	300	300	300	300	300	N/A
Nickel	20	20	700	700	20	N/A

WSB-03 06/24/09 Constituent	0.00 - 1.00	2.00 - 3.00	5.00 - 6.00
BAP	0.21 U	0.19 U	0.18 U
Total PCBs	0.0655 U	0.0558 U	0.0550 U
Arsenic	3.7	2.8 U	2.7 U
Cadmium	0.30 U	0.28 U	0.27 U
Chromium	12	7.8	11
Lead	19	1.9	2.7
Nickel	4.9	4.3	5.4

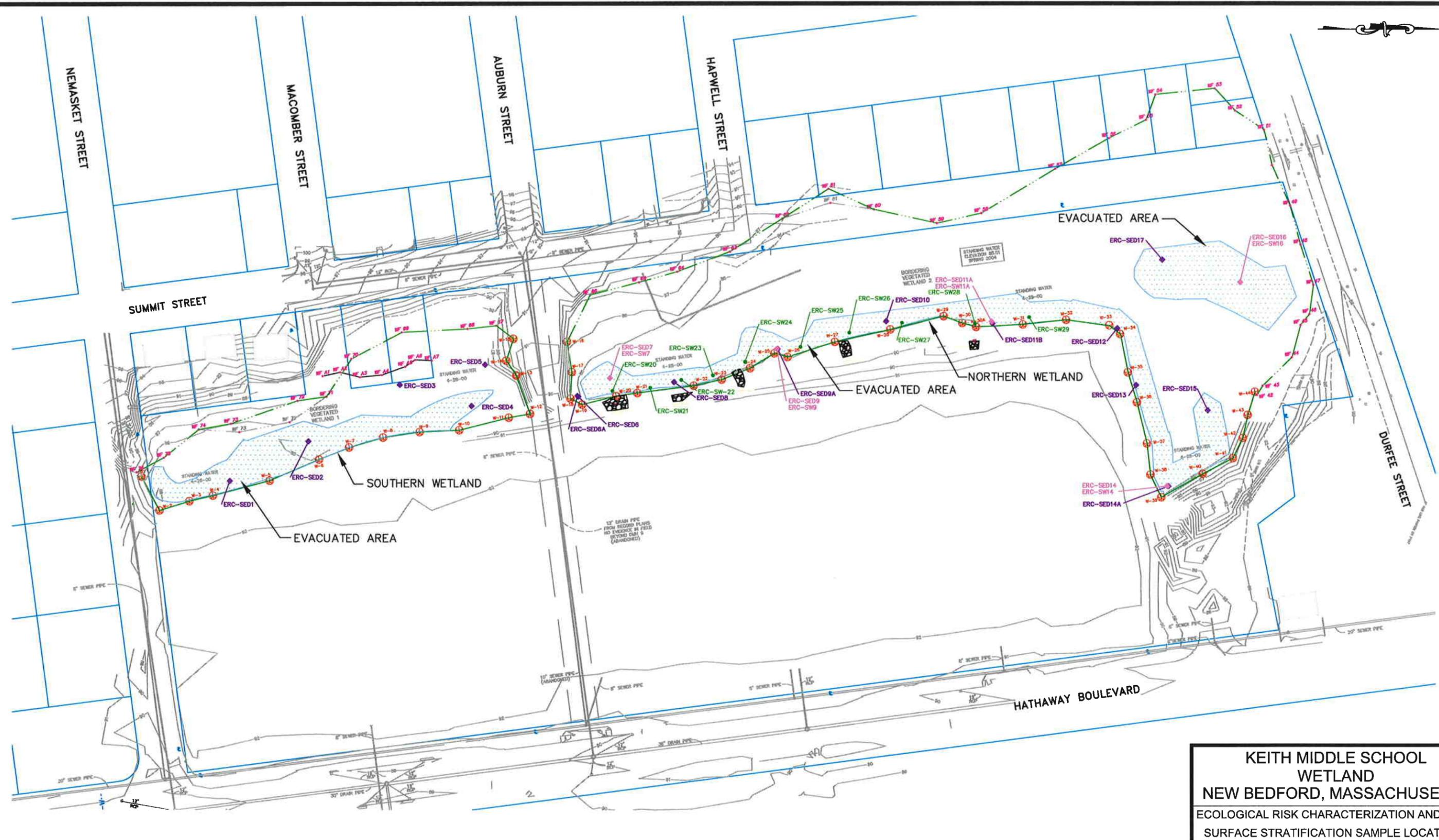
NOTE: DRAWING BASED ON "McCoy Field Site Plan" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.



**KEITH MIDDLE SCHOOL
WETLAND
NEW BEDFORD, MASSACHUSETTS**

ANALYTICAL RESULTS SUMMARY MAP
Summit Street Right-of-Way Portion of Wetland TRC Data

	Wannalancit Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600	FIGURE 5
DRAWN BY: PZ	DATE: September 2009	
CHECKED BY: JS		

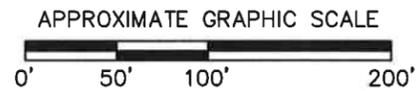


FILE: T:\E_CAD\115058\KMS ECO RISK - SURF STRAT.dwg

NOTE: DRAWING BASED ON "McCOY FIELD SITE PLAN" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.

LEGEND

- ERC-SED7 ◆ SEDIMENT SAMPLE (MARCH 2009)
- ERC-SW7 ◆ SURFACE WATER AND SEDIMENT SAMPLE (MARCH 2009)
- ERC-SW1 ● SURFACE WATER SAMPLE (JULY 2009)

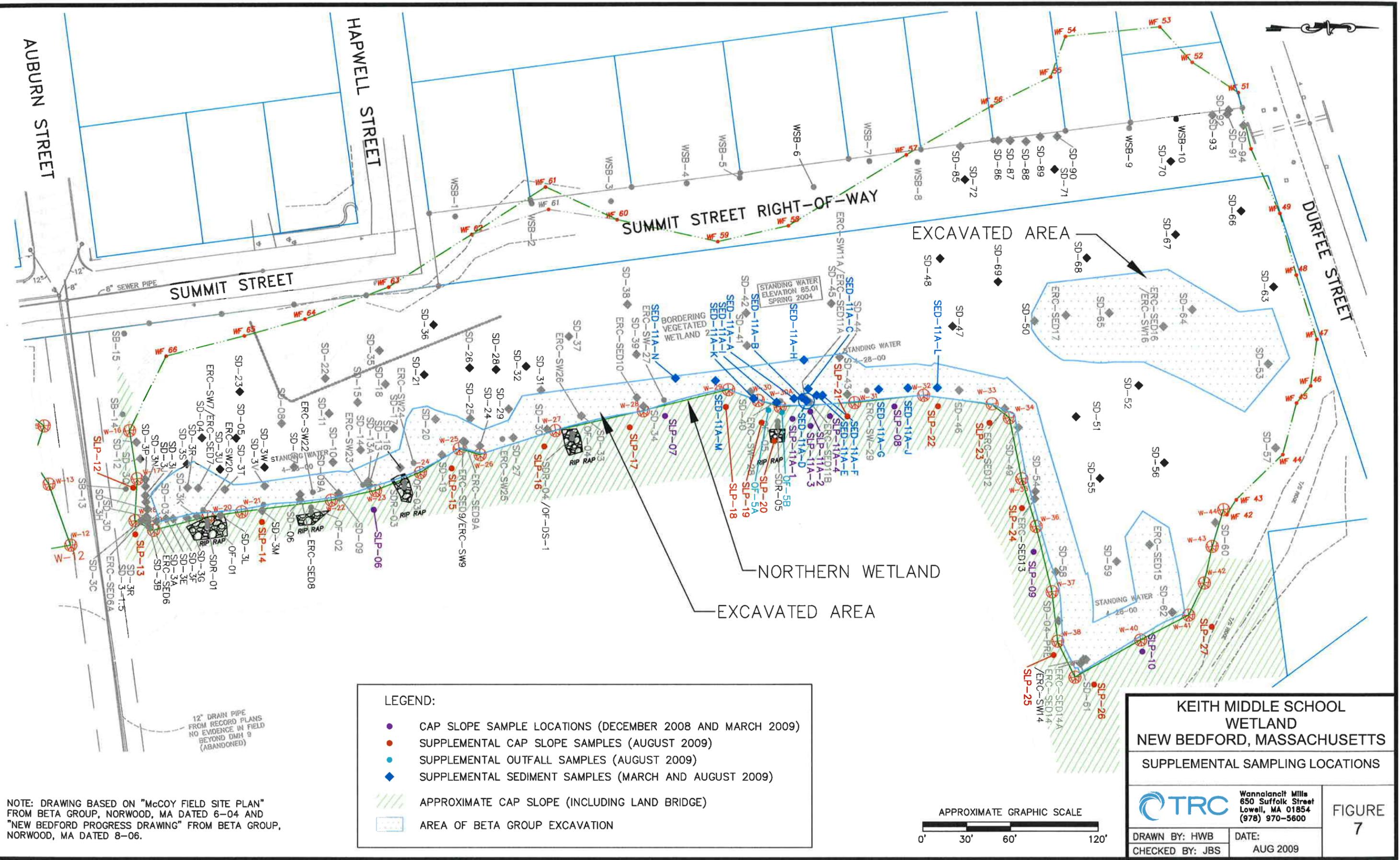


**KEITH MIDDLE SCHOOL
WETLAND
NEW BEDFORD, MASSACHUSETTS**

ECOLOGICAL RISK CHARACTERIZATION AND NEAR
SURFACE STRATIFICATION SAMPLE LOCATIONS

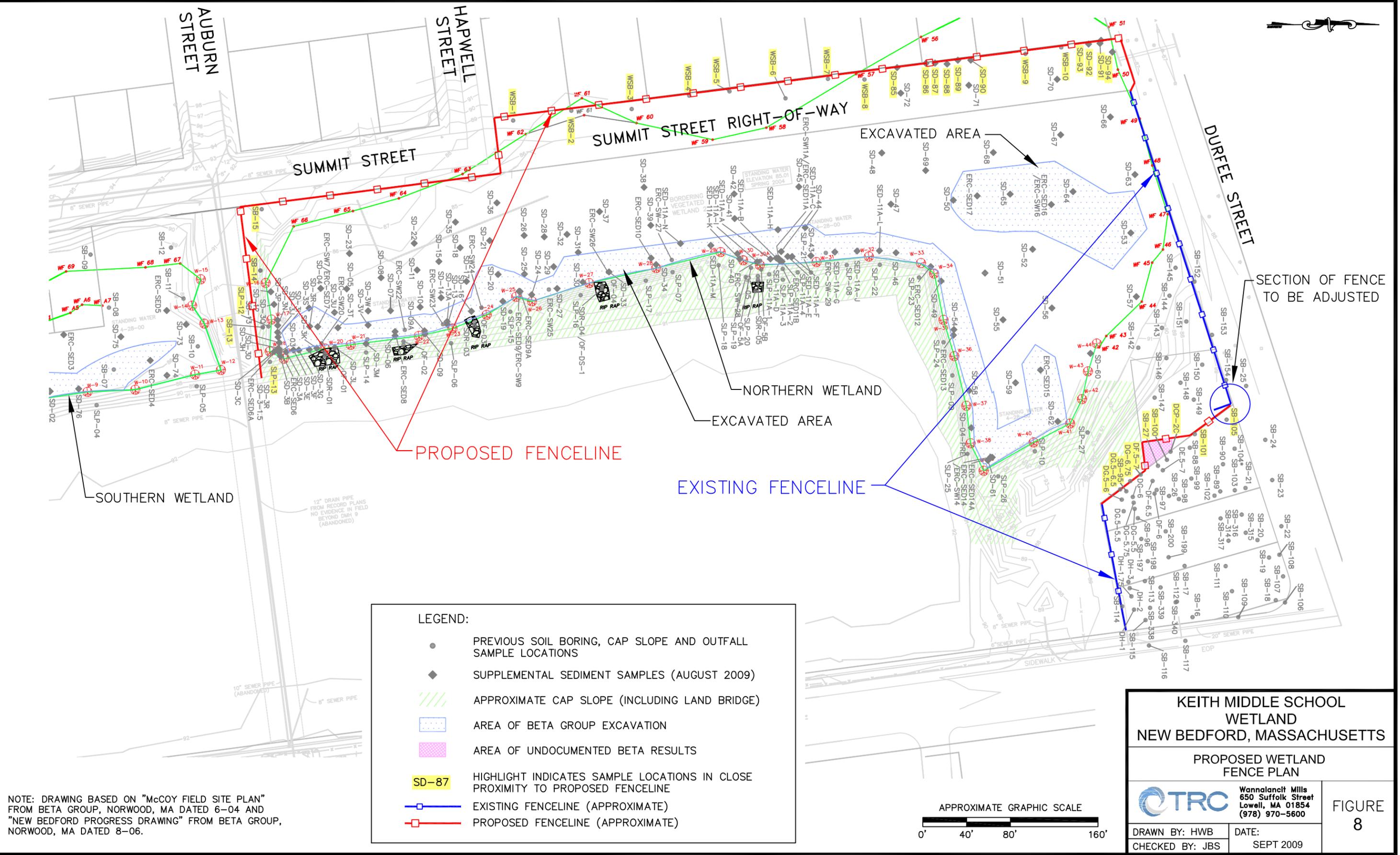
TRC Wannalancit Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600	DATE: SEPT 2009
	DRAWN BY: HWB CHECKED BY: JBS

**FIGURE
6**



NOTE: DRAWING BASED ON "McCOY FIELD SITE PLAN" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.

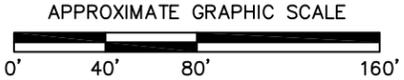
12" DRAIN PIPE FROM RECORD PLANS NO EVIDENCE IN FIELD BEYOND DMH 9 (ABANDONED)



NOTE: DRAWING BASED ON "McCOY FIELD SITE PLAN" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.

LEGEND:

- PREVIOUS SOIL BORING, CAP SLOPE AND OUTFALL SAMPLE LOCATIONS
- ◆ SUPPLEMENTAL SEDIMENT SAMPLES (AUGUST 2009)
- /// APPROXIMATE CAP SLOPE (INCLUDING LAND BRIDGE)
- AREA OF BETA GROUP EXCAVATION
- AREA OF UNDOCUMENTED BETA RESULTS
- SD-87 HIGHLIGHT INDICATES SAMPLE LOCATIONS IN CLOSE PROXIMITY TO PROPOSED FENCELINE
- EXISTING FENCELINE (APPROXIMATE)
- PROPOSED FENCELINE (APPROXIMATE)



KEITH MIDDLE SCHOOL WETLAND NEW BEDFORD, MASSACHUSETTS	
PROPOSED WETLAND FENCE PLAN	
	Wannalancit Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600
DRAWN BY: HWB CHECKED BY: JBS	DATE: SEPT 2009
FIGURE 8	

APPENDIX A

**TRC CORRESPONDENCE WITH EPA REGARDING
PCB DELINEATION SAMPLING**

From: Sullivan, Dave (Lowell,MA-US)
Sent: Monday, December 01, 2008 8:54 AM
To: tisa.kimberly@epamail.epa.gov
Cc: David Fredette; Saunders, Jeffry (Lowell,MA-US); Plumb, Mike (Lowell,MA-US); Scott Alfonse
Subject: RE: KMS Wetland Related Sampling

Kim:

Thanks for taking the time to review this proposed sampling plan so quickly, and for the follow up conversation.

With regard to the slope samples, our rationale was to rule out the slope material over and above any documentation that we can find from BETA as to the presumed quality of the slope soil imported to complete the cap. All wetland sampling we propose to the north and the south of the bridge includes samples collected from the toe of the slope, which should gather data to address your concern about this potentially critical location.

With regard to the 0-3" and 3-6" sampling, we understand that this would be a future (follow-up) sampling endeavor to home in on the depth of contamination, perhaps by targeting areas of high concentration. Such a program would be developed in consultation with you after we receive the results and analyze the data.

With those clarifications, I believe we are "on the same page" and will look to schedule this sampling as soon as practicable.

Thanks,

-Dave

David M. Sullivan, LSP, CHMM
Senior Project Manager

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

978-656-3565 phone
978-453-1995 fax
978-758-2809 cell
dsullivan@trcsolutions.com

-----Original Message-----

From: tisa.kimberly@epamail.epa.gov [mailto:tisa.kimberly@epamail.epa.gov]
Sent: Monday, December 01, 2008 8:19 AM
To: Sullivan, Dave (Lowell,MA-US)
Cc: David Fredette; Saunders, Jeffry (Lowell,MA-US); Plumb, Mike (Lowell,MA-US); Scott Alfonse

Subject: Re: KMS Wetland Related Sampling

See comments below.

Kimberly N. Tisa (CPT)
U.S. Environmental Protection Agency
1 Congress Street, Suite 1100
Boston, MA 02114

617.918.1527 (phone)
617.918.0527 (fax)

"Sullivan, Dave
\
\\(Lowell,MA-US
\\)"
<DSullivan@TRCSO
LUTIONS.com>
11/26/2008 03:06
PM

Kimberly Tisa/R1/USEPA/US@EPA
To
cc
"David Fredette"
<David.Fredette@newbedford-ma.gov
>, "Scott Alfonse"
<Scott.Alfonse@newbedford-ma.gov>
, "Plumb, Mike \
\\(Lowell,MA-US\\)"
<MPlumb@trcsolutions.com>,
"Saunders, Jeffry \
\\(Lowell,MA-US
\\)" <JSaunders@trcsolutions.com>
Subject
KMS Wetland Related Sampling

Kim:

Thanks for taking the time to visit the KMS site this past Tuesday (November 25, 2008) regarding the PCB sediment contamination issue. Please see below for a proposed sampling approach and other information gathering follow-up that with your concurrence we will initiate as soon as practicable.

§ Roof Material. Since the storm drains discharging to the wetland are primarily roof runoff, we will attempt to collect representative samples of the different roofing materials at KMS. There is a white membrane material and an asphalt shingle material that I am aware of on the roof. We will target these materials. We will work closely with Gary Gomes the Facility Engineer that we do not compromise the roofing. We will plan on two samples (one of each material type). Good. Let's also see what if any information we can get about the manufacturer of these products.

§ Storm Drains. We will inspect for and sample sediment or residues that may have accumulated in the storm water discharge pipes to evaluate the potential for these conduits to convey PCB contamination to the wetland. In addition, TRC will review as-built plans to attempt to verify that the storm drain pipes were installed in "clean corridors." Good.

§ Slope Samples. As we discussed yesterday, we did collect one sample from the slope above the original PCB hit and it was non-detect, but to further rule out the slope as a source we will collect 10 samples from the slope (5 to the south of the bridge and 5 to the north) to help rule this out. We will collect them from 0 to 6 inches unless you specify otherwise. In addition, at the base of each of the storm drain outfalls (i.e., the soil under the rip-rap where the storm water flows out), we will collect one shallow surface soil sample (0-6 inches). There are 5 outfalls total, therefore we will collect 5 samples. Where are the slope are you proposing to collect these samples? I believe we had discussed collecting as close to the bottom of the toe as we could. You may have answered this below for the south side, but not necessarily for the north side.

§ North Side Sampling. To the north of the bridge, we will extend our sampling grid out further (about 36 locations, assuming reasonable accessibility). We will use a wider grid than previously employed to more quickly achieve coverage of the remainder of the northern area. We will collect from 0-6 inches and into the underlying grey sand to get a handle on depth. If we detect anything, we can make decisions based on that date for further sampling, if needed, or for other follow-up actions. If possible, I would really like to do smaller intervals than 0-6". At some point, would it be possible to do 0-3" and then 3-6", etc. just to get a better idea of what we really are seeing surfically? We may want to target select locations for more detailed profiling for future work.

§ South Side Sampling. To the south of the bridge, we will collect approximately 12 samples targeting the toe of slope, the area of remediation (see attached scanned map from BETA's Risk Based Approval document) and the area of the berm near the Bethel AME property. For this effort, we will focus on sediment in the 0-6 inch depth zone. As mentioned above, if we look at the 0-6" depth interval, we really are focussed on the presence of PCBs at this point. As you point out, further eval. may be necessary for future decisionmaking.

§ Land Bridge Area. We are also considering collecting samples at the land bridge where the frac tank was placed during the wetland remediation to rule out the notion that PCB's at the surface could possibly have run off from that area into the north wetlands. Perhaps 3 to 4 surface soil samples in that location would help. Also, if there any chance that contaminated soil was used to backfill at the land bridge area when the stone drainage vein crossing the land bridge was installed, we might consider mobilizing a drill rig to collect samples from depth. If you find it worthwhile, we will schedule this based on driller availability. Let's first see what information we have on the soil that was used as backfill at the site. Hopefully all the "imported soil" information should be readily available.

On the attached scanned figure which shows the BETA proposed remediation areas and TRCs proposed sampling points, you will see TRC soil boring (SB) sample locations from November of 2007. During that sampling event, our field team took an inadvertent turn through the wetland on the southern side of the land bridge. While this caused some measure of consternation with the Conservation Agent (Sarah Porter), it had the collateral benefit of providing us PCB data from the top 0.5 to 1 foot interval that we can share with you. These data are included in the TRC March 2008 City Properties/Rights-of-Way report, of which you have been provided a copy. For your convenience, a scan of the relevant portion of the data table is attached. While PCBs were detected, they are all below 1 mg/kg.

Please also see the scanned BETA post-excavation PCB data. Unfortunately, the BETA "Final Completion and Inspection Report" does not show the post-ex locations. However, the post-ex data are all below 1 mg/kg. I do believe, however, that the final verification sampling grid interval should have been no more than a 20x20 foot grid. I believe I final the Completion Report so can't verify my recollection on this one. The majority of the data was ND and for those detected the PCB concentrations were well below 1 ppm. That's why it's hard for me to believe that we missed anything originally based on the # of verification samples collected and the PCB concentrations. At this point, I would say that we just have to do the work and see what the data tells us. I think what's currently proposed is reasonable and we really have to do this is a systematic approach, which includes full delineation as well as getting sufficient information to document that PCBs are not migrating from the site into the wetlands. Hopefully the slope samples, along with the earlier wetland depth samples, will confirm the later.

I should be available most of the data should you wish to discuss further.

I look forward to speaking with you on Monday on this issue. Please call at your convenience.

Thanks,

-Dave

David M. Sullivan, LSP, CHMM
Senior Project Manager
(Embedded image moved to file: pic23045.gif)TRC ESP

TRC
Wannalancit Mills,
650 Suffolk Street
Lowell, Massachusetts 01854

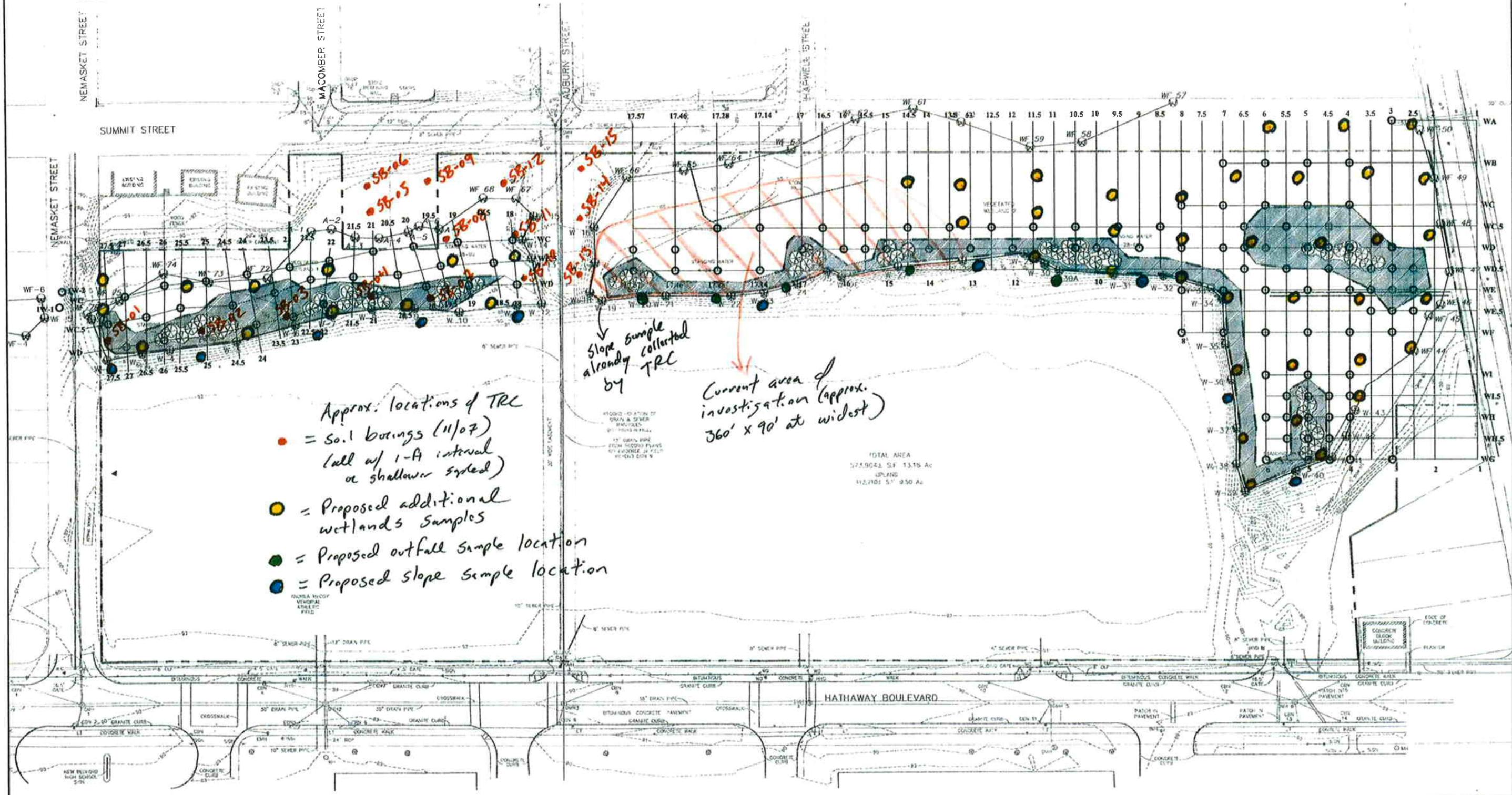
978-656-3565 phone
978-453-1995 fax
978-758-2809 cell
dsullivan@trcsolutions.com

(See attached file: beta wetland post ex.pdf) (See attached file: DRAFT
Proposed Supp. KMS Wetland Locations.pdf) (See attached file: TRC PCB sed and
soil boring data.pdf)

LEGEND

- PROPERTY LINE
- WETLANDS LINE
- WETLANDS AREA SAMPLE < 1 PPM PCBs
- WETLANDS AREA SAMPLE >= 1 PPM PCBs
- BOUNDARY OF INITIAL WETLANDS SEDIMENT REMOVAL (0-6")

NOTE: Alpha-numeric grid corresponds to wetlands area samples. For example, sample WA3-0-6" coincides with grid intersection (WA, 3).



- = Approx. locations of TRC = Soil borings (11/07) (all w/ 1-A interval or shallower depth)
- = Proposed additional wetlands samples
- = Proposed outfall sample location
- = Proposed slope sample location

Slope sample already collected by TRC

Current area of investigation (approx. 360' x 90' at widest)

TOTAL AREA
373,904.1 SF 13.18 Ac
UPLAND
112,710.5 SF 4.09 Ac

J:\Projects\2000\2000_2005 - New Bedford Sampling Plan\Misc\Plan\Risk-based Cleanup Request\Site Wetlands\Figures 2 thru 3\REVISED.dwg Jun 23, 2005 2:18pm

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION

DESIGN BY: **Permitting Plans**
DEPT. CHECK: **Not for Construction**
PROJ. CHECK:

BETA Group, Inc.
Engineers • Scientists • Planners
315 Norwood Park South
Norwood, MA 02062
PH: 781.250.1992
FAX: 781.250.1974
WWW: BETA-BETA.COM

SCALE: 1"=40'
1/4"=10'

Risk-Based Cleanup Request
Figure 2
Wetlands Remediation Area
McCoy Field
New Bedford, Massachusetts

JOB: 02685.00
FILE NO: Figures 2 thru 3\REVISED.dwg
PLOT DATE: June 2005
SHEET: Figure 2

APPENDIX B

**TRC CORRESPONDENCE WITH EPA REGARDING ENVIRONMENTAL RISK
CHARACTERIZATION AND ASSOCIATED SAMPLING**

From: Sullivan, Dave (Lowell,MA-US)
Sent: Monday, February 23, 2009 1:00 PM
To: 'tisa.kimberly@epamail.epa.gov'
Cc: Heim, Scott (Lowell,MA-US); Silverman, Diane (Lowell,MA-US); Donna J Vorhees; David Fredette; Beeler, Malcolm (Windsor,CT-US)
Subject: KMS Wetland - Risk Based Approach

Kim,

As a follow-up to our recent telephone conference regarding the Keith Middle School (KMS) wetland, TRC's proposed approach to evaluating ecological risks within the Keith Middle School (KMS) wetland is to follow Massachusetts Contingency Plan (MCP) Environmental Risk Characterization (ERC) guidance with the exception that Exposure Point Concentrations (EPCs) for receptor species will be represented by the 95% Upper Concentration Limit (UCL) of the mean. Rick Sugat of EPA is on board with this approach based on a conversation with Scott Heim, our Eco-Risk specialist.

The ERC has two components – a Stage I (Screening) ERC and a Stage II ERC. Initially, the proposed sampling will address the requirements for conducting the Stage I ERC. Depending upon the results of the Stage I ERC, additional sampling/testing may be required to support the Stage II ERC. The additional sampling that may be required is briefly discussed below but is dependent on the Stage I ERC results, and will be integrated with some additional needs noted by our human health risk assessment specialists.

Stage I ERC - The proposed approach is to compare maximum surface water and sediments (SW/SED) concentrations of contaminants to benchmarks protective of aquatic/benthic organisms and to model estimated exposure doses of contaminants to higher trophic level receptors (likely receptors include mallard, great blue heron and raccoon – possibly more).

- **Supplemental data collection – surface water** - The data proposed to be collected from the KMS wetland to support the Stage I ERC include surface water samples that will be analyzed for polychlorinated biphenyl (PCB) homologues (EPA Method 680), the 14 MCP metals (total and dissolved using SW846 Method 6010B/6020/7470A), hardness (SW846 Method 6010B) and polyaromatic hydrocarbons (PAHs; SW846 Method 8270C with Selective Ion Monitoring). A total of five samples are proposed as detailed on the attached figure. Note that to our knowledge no surface water samples have previously been collected from the KMS wetland for these parameters.
- **Supplemental data collection – sediment** - In addition to the over 100 sediment samples collected by TRC from the KMS wetland to date (primarily PCB Aroclor analysis) and the previously collected sediment/soil data from unexcavated areas of the KMS wetland by The BETA Group (BETA), which includes 61 samples with primarily PCB aroclor and PAH analyses with RCRA-8 metals and pesticides also available, an additional 12 sediment samples are proposed to be collected by TRC using either a stainless steel spoon or handheld auger from the northern wetland area that was previously excavated. The locations of these proposed samples (0 to 6" in depth) are depicted on the attached figure. These 12 samples will be analyzed for MCP metals (SW846 Method 6010B/7471A) and PAHs (SW846 Method 8270C with Selective Ion Monitoring). In addition, a subset of these samples (4 samples) will be analyzed for PCB congeners (co-planar congeners correlated with dioxin toxicity via EPA Method 1668 (Revision

A) and PCB aroclors (SW846 Method 8082) to obtain congener/aroclor ratios. In addition, 5 sediment samples will be collected from the southern wetland and analyzed for 4,4-DDT (and its derivatives 4,4-DDD and 4,4-DDE) via SW846 Method 8081A as previous sampling by BETA detected this pesticide in the southern wetland. The locations of these 5 samples are depicted on the attached figure.

- **How the data will be used** - If maximum SW/SED concentrations exceed benchmarks and indicate a potential risk to aquatic invertebrates or modeling estimated exposure doses to higher trophic level indicates a potential risk to these receptors, a Stage II ERC will be conducted.

Stage II ERC - The components of the Stage II ERC are dependent upon the results of the Stage I ERC. Possible sampling/studies to be conducted for the Stage II ERC include toxicity testing (if risk to aquatic invertebrates as predicted) and/or sampling of biota (e.g., frogs, tadpoles, invertebrates) to determine body burdens of contaminants to eliminate uncertainties associated with the modeling conducted in Stage I ERC (if risk was predicted from the modeling). The number of samples for toxicity testing and/or body burdens would be approximately 4 to 6 each. Chemical analyses would depend on what contaminants were predicted to result in risk in the Stage I ERC.

Integration with human health risk assessment (HHRA) and statistical basis needs – TRC's human health risk assessors can use much of the data collected for the ERC to support the HHRA. However, some supplemental data needs will also be addressed:

- **Surface water analyses** – Surface water samples collected for the ERC for PCB homologues will also be collected for PCB aroclors to establish as basis for comparability between the surface water data and the sediment data (for which homologue data have not be collected/required).
- **Surface water sample number** – The collection of an additional 3 to 4 surface water samples may be targeted to support UCL calculations. Locations are to be determined (TBD).
- **Supplemental southern wetland sampling** – We are currently evaluating the available data from the southern portion of the wetland to determine if compounds other than pesticides and herbicides warrant sampling and analysis. We will keep you apprised of this evaluation and update you with our determination.

Note that since the southern wetland is typically dry (no or infrequent standing/flowing surface water), we have not targeted surface water data collection from that area.

In addition, the above-proposed sampling approach assumes that BETA will provide all laboratory back-up to allow TRC to evaluate data usability (or in the case of PCBs, perform validation).

Let us know what you think.

Thanks again for your time and attention on this complicated project.

-Dave

David M. Sullivan, LSP, CHMM
Senior Project Manager



PARTNER OF THE YEAR

TRC

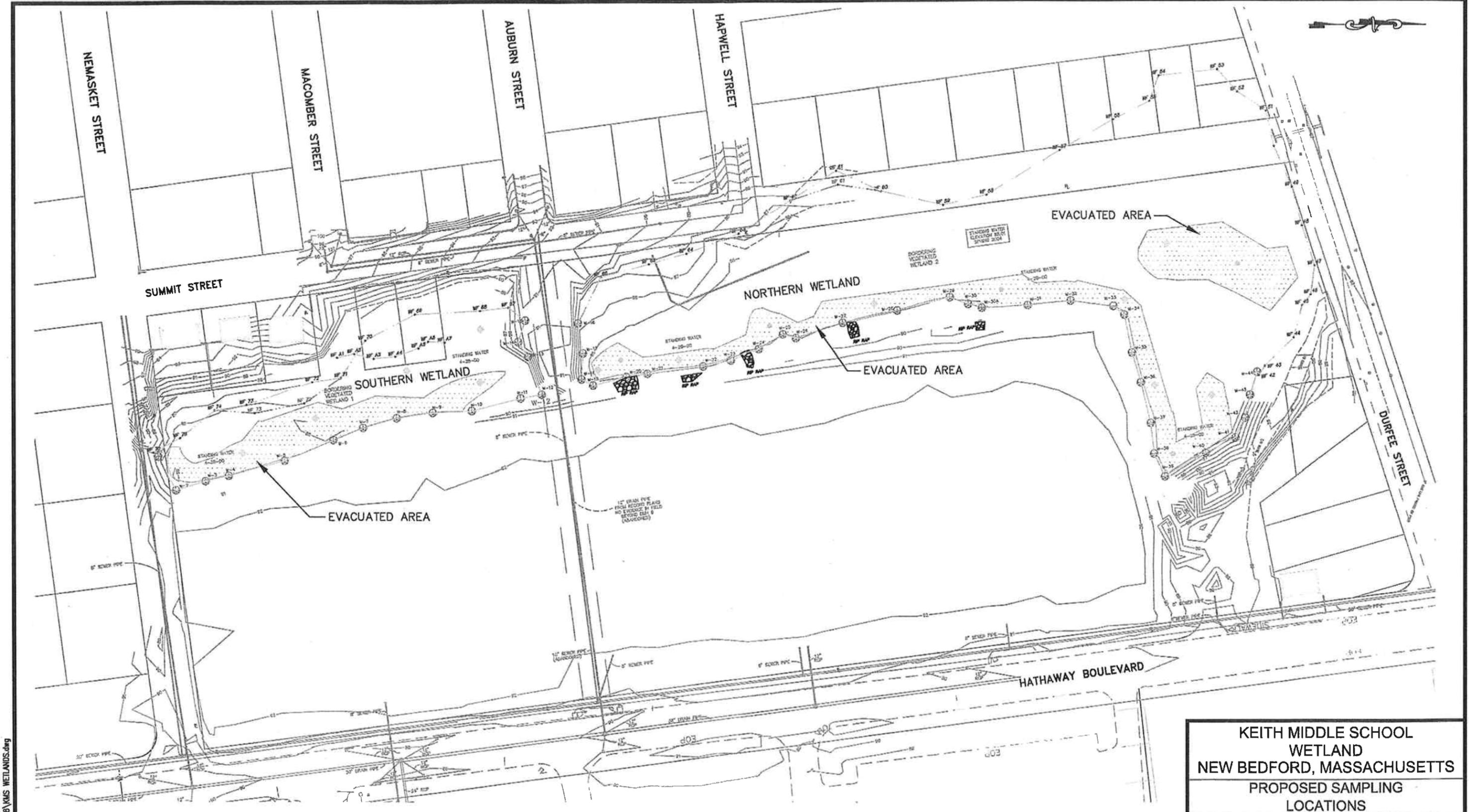
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

978-256-0565 phone

978-453-1995 fax

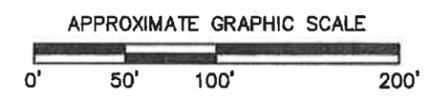
978-753-2009 cell

dsullivan@trcsolutions.com



NOTE: DRAWING BASED ON "McCOY FIELD SITE PLAN" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.

- LEGEND
- PROPOSED SEDIMENT SAMPLE
 - PROPOSED SURFACE WATER AND SEDIMENT SAMPLE



KEITH MIDDLE SCHOOL WETLAND NEW BEDFORD, MASSACHUSETTS PROPOSED SAMPLING LOCATIONS		FIGURE 1
Wannalansett Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600		
DRAWN BY: HWB CHECKED BY: SH	DATE: 2-13-09	

FILE: T:\E_CAD\115058\KMS WETLANDS.dwg

APPENDIX C

CALCULATED GUIDELINES FOR PROPOSED FENCING

**Table D-1
Youth Recreational User - Guideline for Fencing
Incidental Ingestion of Sediment
Keith Middle School
New Bedford, MA**

Constituent	EPC	Exposure Estimates				Toxicity Values		Risk Estimates	
	Sediment Concentration (mg/kg)	RAF Ingestion Cancer (-)	I.ADD Cancer (mg/kg-d)	RAI ¹ Ingestion Noncancer (-)	ADD Noncancer (mg/kg-d)	Cancer Slope Factor (Oral) (mg/kg-d) ⁻¹	Subchronic Noncancer Reference Dose (Oral) (mg/kg-d)	Cancer Risk (-)	Hazard Quotient (-)
1336-36-3 Total PCBs	8	0.85	1.1E-07	0.85	3.5E-06	2.0E+00	5.0E-05	2.25E-07	7.06E-02

	Cancer Risk	Hazard Index
TOTAL:	2E-07	7E-02

Where:

$$I.ADD_{cancer} = [Soil\ Concentration \times UC \times RAF \times IR \times EF \times ED \times EP] / [BW \times AP_{cancer}]$$

$$ADD_{non-cancer} = [Soil\ Concentration \times UC \times RAF \times IR \times EF \times ED \times EP] / [BW \times AP_{non-cancer}]$$

$$Cancer\ Risk = I.ADD_{cancer} \times Slope\ Factor$$

$$Hazard\ Quotient = ADD_{non-cancer} / Subchronic\ Reference\ Dose$$

Unit Conversion (CF) =	1.0E-06	kg/mg
Relative Absorption Factor (R)	CS	(unitless) [1]
Ingestion Rate (IR) =	50	mg/d [4]
Exposure Duration (ED) =	1	day/event [4]
Exposure Frequency (EF) =	0.164	events/d (2 days per week for 30 weeks per year) [3] - cancer
Exposure Period (EP) =	5	year (ages 8 through 13) [4] - cancer
Body Weight (BW) =	35.5	kg [2] - 8-13 year old - cancer
Averaging Period Cancer (AP)	70	years [4]
Averaging Period Noncancer	0.577	years (30 weeks) [4] - subchronic
Exposure Frequency (EF) =	0.286	events/d (2 days per week) [3] - subchronic noncancer
Body Weight (BW) =	27.5	kg [2] - 8-9 year old - subchronic noncancer
Exposure Period (EP) =	0.577	year (30 weeks) [3] - subchronic noncancer

[1] MADEP, 2008
 [2] 50th percentile, female; EPA 1997
 [3] Best professional judgement
 [4] MassDEP, 2008
 CS - chemical-specific

**Table D-2
Youth Recreational User - Guideline for Fencing
Dermal Contact with Sediment
Keith Middle School
New Bedford, MA**

Constituent	EPC	Exposure Estimates				Toxicity Values		Risk Estimates	
		Sediment Concentration (mg/kg)	RAF Dermal Cancer (-)	LADD Cancer (mg/kg-d)	RAF Dermal Noncancer (-)	ADD Noncancer (mg/kg-d)	Cancer Slope Factor (Oral) (mg/kg-d) ⁻¹	Subchronic Noncancer Reference Dose (Oral) (mg/kg-d)	Cancer Risk (-)
1336-36-3 Total PCBs	8	0.16	1.7E-06	0.16	4.4E-05	2.0E+00	5.0E-05	3.44E-06	8.87E-01

Where:

$LADD_{cancer} = \text{Soil Concentration} \times UC \times SA \times SAF \times RAF \times EF \times ED \times EP / (BW \times AP_{cancer})$
 $ADD_{non-cancer} = \text{Soil Concentration} \times UC \times SA \times SAF \times RAF \times EF \times ED \times EP / (BW \times AP_{non-cancer})$
 $\text{Cancer Risk} = LADD_{cancer} \times \text{Slope Factor}$
 $\text{Hazard Quotient} = ADD_{non-cancer} / \text{Subchronic Reference Dose}$

	Cancer Risk	Hazard Index
TOTAL:	3E-06	9E-01

Unit Conversion (UC) = 1E-06 kg/mg
 Skin Surface Area (SA) = 4067.2 cm²/d [5] - 8-13 year old - cancer
 Sediment Adherence Factor (SAF) = 1 mg/cm² [6]
 Relative Absorption Factor (RAF) = CS (unitless) [2]
 Exposure Duration (ED) = 1 day/event [4]
 Exposure Frequency (EF) = 0.164 events/day (2 day per week for 30 weeks per year) [3] - cancer
 Exposure Period (EP) = 5 year (ages 8 through 13) [4] - cancer
 Body Weight (BW) = 35.5 kg [1] - 8-13 year old - cancer
 Averaging Period Cancer (AP_{cancer}) = 70 years [4]
 Averaging Period Noncancer (AP_{noncancer}) = 0.577 years (30 weeks) [4] - subchronic
 Exposure Frequency (EF) = 0.286 events/d (2 days per week) [3] - subchronic noncancer
 Body Weight (BW) = 27.5 kg [1] - 8-9 year old - subchronic noncancer
 Skin Surface Area (SA) = 3335.7 cm²/d [5] - 8-9 year old - subchronic noncancer
 Exposure Period (EP) = 0.577 year (30 weeks) [3] - subchronic noncancer

Total Receptor Risk/Hazard		
	Cancer Risk	Hazard Index
Total	4E-06	1E+00

[1] 50th percentile, female; EPA 1997
 [2] MADEP, 2008
 [3] Best Professional Judgement
 [4] MassDEP, 2008
 [5] Table D-2; face (1/3 of head surface area), forearms, hands, lower legs, feet for females
 [6] MADEP, 2002
 CS - chemical-specific

Bold = Cancer Risk > 1.0E-05 or Hazard Quotient > 1.0

APPENDIX D
SOIL BORING LOGS



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-1 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 4
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 10
 LOCATION KMS - 8' North of corner lot stake adjacent to Summit St. GROUND ELEVATION (Feet, NAVD 88) 88.92
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		60/40"		S-1		0-6" Dark-brown fine organic material	0.0	WSB-1 (0-1) 0900 Plus MS/MSD	No monitoring well installed
2						6-18" Tan fine-medium SAND, trace gravel.			
3						18-40" Tan to gray fine-medium SAND, some gravel, moist.			
4							WSB-1 (3-4) 0905	▽	
5		60/40"		S-2		0-6" Tan to gray SILT and CLAY, wet	0.0	WSB-1 (5-6) 0910	
6						6-12" Tan to gray fine SAND and SILT, trace gravel, wet.			
7						12-14" Tan medium-coarse SAND, wet.			
8						14-40" Tan fine-coarse SAND and some gravel, wet.			
9									
10						End of Boring @ 10 feet		WSB-1 (9-10) 0915	



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-2 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 3.5
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 10
 LOCATION KMS - Approximately 54' North of WSB-1 GROUND ELEVATION (Feet, NAVD 88) 88.26
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1		60/30"		S-1		0-12" Dark-brown fine organic material, moist	0.0	WSB-2 (0-1) 1050	No monitoring well installed
2						12-16" Brown to tan fine SAND, moist.			
3						16-22" Tan fine-medium SAND, moist to wet.			
4						22-24" Crushed gray STONE		WSB-2 (3-4) 1055	
5		60/44"		S-2		24-30" Gray to tan fine-coarse SAND, some gravel, very dense.			
6						0-12" Tan fine-coarse SAND, trace gravel, saturated.	0.0	WSB-3 (5-6) 1100	
7						12-30" Tan fine SAND, SILT and CLAY, trace gravel, dense, moist.			
8						30-34" Tan coarse SAND, some fine-medium sand, trace gravel, wet.			
9						34-44" Tan fine SAND, saturated.		WSB-4 (9-10) 1105	
10						End of Boring @ 10 feet			



Wannalancit Mills
650 Suffolk Street
Lowell MA
Telephone: 978-970-5600
Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-3 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 3
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 10
 LOCATION KMS - Approximately 51' North of WSB-2 GROUND ELEVATION (Feet, NAVD 88) 88.33
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		60/28"		S-1		0-5" Dark-brown fine organic material.	0.0	WSB-3 (0-1) 1110	No monitoring well installed
2						5-24" Tan fine-medium SAND, some coarse sand and gravel, moist.		WSB-3 (2-3) 1115	
3						24-28" Tan fine-coarse SAND and GRAVEL, moist.			
4									
5		60/32"		S-2		0-6" Tan fine SAND, some medium-coarse sand, saturated.	0.0	WSB-3 (5-6) 1120	
6						6-32" Tan fine-medium SAND, some silt, coarse sand and gravel, dense, moist.			
7									
8									
9									
10						End of Boring @ 10 feet		WSB-3 (9-10) 1125	



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-4 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 3.5
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 10
 LOCATION KMS - Approximately 45' North of WSB-3 GROUND ELEVATION (Feet, NAVD 88) 88.49
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1		60/38"		S-1		0-6" Dark-brown fine organic material.	0.0	WSB-4 (0-1) 1135	No monitoring well installed
2						6-26" Tan fine SAND, trace gravel, moist.			
3						26-38" Tan to gray fine SAND, some medium sand and gravel, moist.			
4								▽	
5		60/40"		S-2		0-40" Tan fine SAND and SILT, some medium-coarse sand and gravel, very dense, moist.	0.0	WSB-4 (5-6) 1145	
6									
7									
8									
9									
10						End of Boring @ 10 feet		WSB-4 (9-10) 1150	



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-5 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) NA
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 15
 LOCATION KMS - Approximately 48' North of WSB-4 GROUND ELEVATION (Feet, NAVD 88) 88.58
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1		60/21"		S-1		0-4" Dark-brown fine organic material.	0.0	WSB-5 (0-1) 1205	No monitoring well installed
2						4-10" Tan fine SAND, trace gravel, moist.			
3						10-15" White crushed STONE.		WSB-5 (2-3) 1210	
4						15-21" Tan fine-coarse SAND, some gravel.			
5		60/26"		S-2		0-14" Tan fine-coarse SAND, some gravel, saturated.	0.0	WSB-5 (5-6) 1215	
6						14-26" Tan fine SAND and SILT, some gravel, very dense.			
7						0-10" Tan fine SAND, saturated.		WSB-5 (9-10) 1220	
8						10-30" Tan fine-coarse SAND and GRAVEL, saturated.			
9		60/45		S-3		30-45" Tan fine SAND, some medium-coarse sand and gravel, saturated.			
10						0-10" Tan fine SAND, saturated.	0.0		
11						10-30" Tan fine-coarse SAND and GRAVEL, saturated.			
12						30-45" Tan fine SAND, some medium-coarse sand and gravel, saturated.			
13						0-10" Tan fine SAND, saturated.			
14						10-30" Tan fine-coarse SAND and GRAVEL, saturated.			
15						End of Boring @ 15 feet			



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-6 FILTER PACK TYPE NA
 TRC GEOLOGIST E. Wachtel SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 3
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 10
 LOCATION KMS - Approximately 48' North of WSB-5 GROUND ELEVATION (Feet, NAVD 88) 88.32
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Direct Push - 6620 DT Track Rig
 NOTES Sampled for PCBs, PAHs, Metals & Hg

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM	
1		60/28"		S-1		0-8" Dark-brown fine organic material, moist.	0.0	WSB-6 (0-1) 1230		No monitoring well installed
2						8-20" Tan fine SAND, some medium-coarse sand, trace gravel, moist.		WSB-6-D (0-1) 1330		
3						20-28" Tan to gray fine SAND, some medium-coarse sand and gravel.		WSB-6 (2-3) 1235	▽	
4						0-25" Tan fine-coarse SAND and GRAVEL, very dense, saturated.	0.0	WSB-6 (5-6) 1240		
5		60/25"		S-2						
6										
7										
8										
9										
10						End of Boring @ 10 feet		WSB-3 (9-10) 1245		



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-7 FILTER PACK TYPE NA
 TRC GEOLOGIST J. Saunders SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN New England Geotech/Hayes Rembijas DEPTH TO WATER (Approximate Feet) 1.25
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 5
 LOCATION KMS - Approximately 30' South of WSB-8 GROUND ELEVATION (Feet, NAVD 88) 87.66
 SAMPLING METHOD 24" Large Bore Sampler REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Bosch Hammer Drill
 NOTES Sampled for PCBs, PAHs and/or Metals (WSB-7 (3-4) for Metals and PAHs only, WSB-7 (4-5) for PCBs only)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		24/20"		S-1		0-10" Dark-brown organic SILT and fine SAND, trace fine gravel and roots, moist, no odor, no staining.	0.0	WSB-7 (0-1) 1240	No monitoring well installed
2						10-20" Dark-brown-tan fine SAND, little to some silt, moist to wet, no odor, no staining.		WSB-7 (1-2) 1245	
3		36/18"		S-2		0-18" Tan to gray-brown fine SAND, little silt, trace fine gravel, wet, no odor, no staining.	0.0	WSB-7 (3-4) 1250	
4								WSB-7 (4-5) 1255	
5						End of Boring @ 5 feet (Note: Overdrilled second macrocore to increase sample recovery)			



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-8 FILTER PACK TYPE NA
 TRC GEOLOGIST J. Saunders SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & D. Regan DEPTH TO WATER (Approximate Feet) 1
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 5
 LOCATION KMS - ~342' North of South Summit St. lot corner GROUND ELEVATION (Feet, NAVD 88) 85.93
 SAMPLING METHOD 24" Large Bore Sampler REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Bosch Hammer Drill
 NOTES Sampled for PCBs, PAHs and/or Metals (WSB-8 (3-4) for Metals and PAHs only, WSB-8 (4-5) for PCBs only)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		24/18"		S-1		0-4" Dark-brown to black organic SILT, moist, no odor, no staining.	0.0	WSB-8 (0-1) 1155	No monitoring well installed
2		36/20"		S-2		4-18" Tan to gray-brown fine SAND, some silt, wet, no odor, no staining.	0.0	WSB-8 (1-2) 1200	
3					0-6" Tan to gray-brown fine SAND, some silt, trace fine gravel, wet, no odor, no staining.				
4				6-20" Tan to brown SILT and fine SAND, trace fine gravel, clay from 14-16", wet, no odor, no staining.					
5					End of Boring @ 5 feet (Note: Overdrilled second macrocore to increase sample recovery.)				



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-9 FILTER PACK TYPE NA
 TRC GEOLOGIST J. Saunders SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & Steve Perry DEPTH TO WATER (Approximate Feet) 2
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 8
 LOCATION KMS - Approximately 65' South of Durfee St. property corner GROUND ELEVATION (Feet, NAVD 88) 87.43
 SAMPLING METHOD 24" Large Bore Sampler REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Bosch Hammer Drill
 NOTES Sampled for PCBs, PAHs and/or Metals (WSB-9 (3.5-5) for Metals and PAHs only, WSB-9 (0-1), (2-3) & (6-9) for PCBs only, Hold (6-9))

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM		
1		24/14"		S-1		0-14" Dark-brown to dark-gray-brown SILT and fine SAND (organic rich), trace fine gravel and roots, moist to very moist, no odor, no staining.	0.0	WSB-9 (0-1) 1020	No monitoring well installed		
2		36/18"		S-2		0-18" Dark-brown to black SILT, trace fine sand and gravel, wet, no odor, no staining.	0.0	WSB-9 (1-2) 1025 ▽			
3								WSB-9 (2-3) 1040			
4		36/18"		S-3		0-6" Black organic SILT, wet, no odor, no staining.	0.0	WSB-9 (3.5-5) 1042			
5											
6											
7						6-18" Dark-brown organic SILT, trace roots, wet, no odor, no staining.					
8						End of Boring @ 8 feet (Note: Overdrilled second and third macrocores to increase sample recovery.)		WSB-9 (6-7) 1045 (Hold)			



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER New Bedford / 115058 SCREEN TYPE/SLOT NA
 BORING/WELL NUMBER WSB-10 FILTER PACK TYPE NA
 TRC GEOLOGIST J. Saunders SEAL TYPE NA
 DRILLING CONTRACTOR/FOREMAN NEG/Hayes Rembijas & D. Regan DEPTH TO WATER (Approximate Feet) 2
 DATE DRILLED 6/24/09 TOTAL DEPTH (Feet) 8
 LOCATION KMS - Approximately 40' South of Durfee St. property corner GROUND ELEVATION (Feet, NAVD 88) 86.29
 SAMPLING METHOD 24" Large Bore Sampler REFERENCE ELEVATION (Feet, NAVD 88) NA
 DRILLING METHOD Bosch Hammer Drill
 NOTES Sampled for PCBs, PAHs and/or Metals (WSB-10-(3.5-5) for PAHs & Metals only, WSB-10 (2-3) & (7-8) for PCBs only)

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	TRC ID	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM			
1		24/18"		S-1		0-18" Dark-brown with some dark-gray-brown SILT and fine SAND, trace roots and fine gravel, moist, no odor, no staining.	0.0	WSB-10 (0-1) 1055	No monitoring well installed			
2		36/20"		S-2		0-6" Dark-brown SILT and fine SAND, wet, no odor, no staining.	0.0	WSB-10 (1-2) 1100				
3						6-20" Dark-brown to black organic SILT, wet, slight organic odor, no staining.		WSB-10-(2-3) 1105				
4		36/12"		S-3		0-12" Dark-brown organic SILT, wet, slight organic odor, no staining.	0.0	WSB-10 (3.5-5) 1110				
5												
6												
7												
8						End of Boring @ 8 feet (Note: Overdrilled second and third macrocore to increase sample recovery.)		WSB-10 (7-8) 1112 (Hold)				