ENVIRONMENTAL STEWARDSHIP DEPARTMENT/
NEW BEDFORD CONSERVATION COMMISSION

CITY OF NEW BEDFORD
SCOTT W. LANG, MAYOR

November 5, 2009

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

RE: Information Regarding Liberty Street Drainage Construction Activity
New Bedford High School
230 Hathaway Boulevard
New Bedford, Massachusetts

Dear Ms. Tisa:

The purpose of this letter is to provide notice to the United States Environmental Protection Agency (USEPA) that the City of New Bedford (City) is preparing for the installation of a drainage system running along the eastern shoulder of Liberty Street, joining two new manholes near the center of Liberty Street, then extending southwest along the driveway to an existing catch basin in the east-side parking lot of New Bedford High School (NBHS) (see Figure 1). Construction activity in this location will displace potentially contaminated soil on the order of approximately 109 cubic yards to be stockpiled onsite pending characterization results for off-site disposal. The purpose of this project is to improve storm water drainage along Liberty Street. The work will be performed by the City in accordance with a Utility-Related Abatement Measure (URAM) consistent with the requirements set forth in the Massachusetts Contingency Plan (MCP; 310 CMR 40.0460). The URAM provides a mechanism for the installation of utilities at sites where contamination is present in soil and/or groundwater and will in no way limit or impede the implementation of future response actions or a full remedy. The URAM-related construction activities will be subject to USEPA and Massachusetts Department of Environmental Protection (MassDEP) review and oversight.

Background

The utility construction activities are to take place on Liberty Street and the New Bedford High School east-side parking lot area located in New Bedford, Massachusetts. The utility construction activities will include the installation of approximately 280 feet of 12" PVC sub-drain pipe along the east shoulder of Liberty Street to be connected to a proposed drain man hole in Liberty Street, which will be connected to another proposed man hole with approximately 30 feet of 12" PVC pipe, then running 12" PVC pipe

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approximately 125 feet to the southwest to an existing catch basin located in the east-side parking lot at New Bedford High School. All utility construction will be performed on property owned by the City of New Bedford. The utility construction activities area is bordered to the east by the City Yard, to the west by the New Bedford High School and to the North and South by Liberty Street, and New Bedford High School parking areas and open grassy areas.

TRC conducted soil testing in the utility construction area in July and August 2008. The objective of TRC's soil testing was to further delineate the contaminated fill from the former Parker Street Waste Site (PSWS). TRC advanced a total of forty-six soil borings in the utility construction area. Fill was encountered at depths ranging from 18-inches at boring location HRI-17 to 68-inches at boring location SB-295. The relevant boring logs are provided as an attachment. Soil boring locations are identified on Figure 1.

TRC submitted a total of fifty-five soil samples from the forty-six borings and 5 surface samples in the utility construction area for laboratory analysis of semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and MCP metals and mercury. The SVOC analysis was limited to polycyclic aromatic hydrocarbons (PAHs) only. A summary of laboratory analytical results for the utility construction area is included in Table 1. Sampling locations are identified in Figure 1.

The laboratory results did not indicate the detection of PAHs and PCBs above MCP Method 1 soil cleanup standards in any of the samples submitted. The laboratory results for MCP metals and mercury exceeded the MCP Method 1 cleanup standards as follows:

- Arsenic at sampling locations SB-293 (31.6 mg/Kg at 9 feet), SB-294 (40.6 mg/Kg at 4 feet, and SB-320 (55.8 mg/Kg at 5 feet).
- Barium at sampling location SB-294 (1,920 mg/Kg at 4 feet), SB-360 (2,750 mg/Kg at 1-3 feet), SB-360A (4,060 mg/Kg at 1-3 feet), SB-360B (2,170 mg/Kg at 1-3 feet), SB-360E (1,050 mg/Kg at 1-3 feet) and SB-360F (1,250 mg/Kg at 1-3 feet).
- Cadmium at sampling locations SB-219 (2.92 mg/Kg at 4-feet), SB-293 (16.2 mg/Kg at 9 feet), SB-294 (2.10 mg/Kg at 4 feet, 3.14 mg/Kg at 8.5 feet, and 2.75 at 12 feet), SB-320 (7.87 mg/Kg at 5 feet) and SB-363 (5.77 mg/Kg at 6.5 feet).
- Chromium at sampling locations SB-219 (35.9 mg/Kg at 4 feet), SB-294 (36.5 mg/Kg at 4 feet), SB-320 (107 mg/Kg at 5 feet), SB-360 (39.2 mg/Kg at 1-3 feet), SB-360A (54.0 mg/Kg at 1-3 feet), SB-360F (74.7 mg/Kg at 1-3 feet) and SB-363 (47.7 mg/Kg at 6.5 feet).
- Lead at sampling locations SB-217 (418 mg/kg at 5feet), SB-219 (1,500 mg/Kg at 4 feet), SB-293 (396 mg/Kg at 6.5 feet, and 848 mg/Kg at 9 feet), SB-294 (3,260 mg/Kg at 4 feet, 790 mg/Kg at 8.5 feet), SB-319 (483 mg/Kg at 4 feet), SB-320 (2,240 mg/Kg at 5 feet), SB-360 (39,600 mg/Kg at 1-3 feet (duplicate) and 6,870 mg/Kg at 5 feet), SB-360A (20,200 mg/Kg at 1-3 feet), SB-360B (26,700 mg/Kg at 1-3 feet), SB-360C (422 mg/Kg at 1-3 feet (duplicate)), SB-360E (8,550 mg/Kg at 1-3 feet), SB-360F (1,070 mg/Kg at 1-3 feet), SB-360G (590 mg/Kg at 1-3 feet), SB-360I (4,600 mg/Kg at 1-3 feet), SB-360J (530 mg/Kg at 1-3 feet), SB-360K (890 mg/Kg at 1-3 feet), SB-360L (470 mg/Kg at 1-3 feet), SB-360M (860

- mg/Kg at 1-3 feet), SB-360O (500 mg/Kg at 1-3 feet), SB-360Q (1,200 mg/Kg at 1-3 feet), SB-360R (650 mg/Kg at 1-3 feet), SB-360U (9,800 mg/Kg at 1-3 feet), SB-360X (750 mg/Kg at 1-3 feet (duplicate)), SB-362 (487 mg/Kg at 1-3 feet, 448 mg/Kg at 5 feet and 319 mg/Kg at 6.5 feet) and SS-40 (819 mg/Kg at 2 feet).
- Nickel at sampling locations SB-217 (26.3 mg/Kg at 5 feet), SB-219 (28.9 mg/Kg at 4 feet), SB-293 (25.9 mg/Kg at 9 feet), SB-294 (31.8 mg/Kg at 4 feet), and SB-320 (99.7 mg/Kg at 5 feet), SB-360 (21.5 mg/Kg at 5 feet) and SB-362 (40.3 mg/Kg at 6.5 feet).
- Zinc at sampling locations SB-293 (4,500 mg/Kg at 9 feet), and SB-320 (3,570 at 5 feet).

PCB Remediation Waste Determination

In the area of utility construction, fill material related to the PSWS is likely to be encountered. The City understands that some of the URAM activities may be jurisdictional under the USEPA's PCB regulations under 40 CFR Part 761. Table 1 provides information to facilitate the USEPA's evaluation of the regulatory applicability, particularly with regard to the applicability of the definition of PCB Remediation Waste under 40 CFR Part 761.3.

Extensive analytical testing of the soil has occurred at the NBHS property by TRC and the previous consultant (BETA Group, Incorporated). Analytical results from soil samples collected from the NBHS property indicate that there are no PCB concentrations exceeding 1 ppm (mg/kg) within the proximity of the proposed drainage system. The nearest sample with a detected concentration of PCBs exceeding 1 ppm was collected at sample location SS-28 (Total PCBs at 2.26 mg/kg), which is located east of the boy's gym approximately 350-feet south of the proposed drainage system.. Analytical results indicate that one soil sample has exhibited a PCB concentration in excess of 50 mg/kg (sample location HF-31D (1-3')) at a concentration of 71.6 mg/kg; however, this location is approximately 500-feet from the proposed drainage system and on the west side of the NBHS building. In addition, seven groundwater monitoring wells within the NBHS property have been sampled, with only one (MW-5, located within the NBHS boiler room) exhibiting a detectable concentration of PCBs at 0.0731 mg/kg.

Table 1 summarizes the analytical results associated with soil samples collected in close proximity to the proposed drainage system. None of the soil samples exhibited detectable concentrations of PCBs. It is anticipated that an estimated 109 cubic yards (yd^3) of soil will be permanently displaced by the pipe and fill surrounding the pipe and catchbasins during the installation of the storm drain system. Any soil displaced during installation of the drainage system, including that which will be returned to the excavation upon completion of the work, will be managed, transported and disposed of in accordance with all applicable United States Department of Transportation (DOT), USEPA and MassDEP regulations. This includes analysis for VOCs, SVOCs, PCBs, TPH and as-needed TCLP Metals to facilitate management and potential off-site disposal of stockpiled material. Although it is not anticipated that any of the soil that will be excavated will qualify for regulation as PCB Remediation Waste, any material meeting that definition under 40 CFR Part 761.3 will be sampled, transported and disposed of pursuant to USEPA Toxic

Substance Control Act (TSCA) regulations. In accordance with the Final Approval for Risk-Based Cleanup and Disposal letter from the USEPA to the City dated August 3, 2005, if PCB contamination regulated under TSCA or federal PCB regulations under 40 CFR Part 761 are encountered during implementation of this URAM, a remediation plan will be submitted for USEPA review and approval. All excavated soils will be staged on polyethylene sheeting (minimum 6-mil thickness) and covered with poly sheeting pending being returned to the excavation. That material which is permanently displaced as a result of the utility installation will be sampled for disposal characterization prior to transportation and disposal at an appropriate offsite facility.

Historical information, such as the timeframe for approval and construction of the NBHS (i.e., late 1960s – early 1970s), and thus the closure of the dump, and a detailed review of ownership records, aerial photographs, newspaper articles, historical maps and a variety of City records, indicate that PSWS-related waste disposal activities took place between 1950 and 1954. Furthermore, waste disposal activities in the wider PSWS impacted area (including Walsh Field and the former Keith Junior High School properties) ceased in the early 1960s. The construction date of the NBHS and evidence indicating cessation of waste deposition activity in the early 1960s, indicate that waste deposition from the PSWS concluded prior to April 1978. In addition, there is no evidence that areas have been extensively disturbed by construction activities after April 1978.

Conclusion

Based on these lines of evidence, it is the City's position that none of the soil that will be displaced during the implementation of utility construction activities qualifies to be regulated as PCB Remediation Waste or require classification and disposal under TSCA at this time. Historical information indicates that contamination related to the PSWS was disposed of prior to April 1978 and has remained in place since April 1978. Extensive investigation has determined that soil concentrations at NBHS do not exceed PCB concentrations of 50 mg/kg in the area of the proposed drainage system. Although one soil sample collected from the NHBS property has exhibited a PCB concentration in excess of 50 mg/kg, extensive investigation indicates that this exceedance is localized. Furthermore, the 50 mg/kg exceedance was detected at least 500-feet from the proposed pathway for the storm drain, indicating that although the drain pipe will cross the NBHS property it is unlikely that soil with PCB concentrations in excess of 50 mg/kg will be encountered in the area of the proposed work.

It is anticipated that the drainage system installation will begin as soon as possible following your concurrence on this installation plan and no construction will start prior to that acknowledgement. Currently the City anticipates a minimum of one to two weeks to complete the work. Furthermore, the installation of the drainage system is only an interim utility construction measure in accordance with the MCP and in no way will impede implementation of or act as a remedy for addressing soil contamination. A final remedy is currently in the planning stages and will be the subject of future regulatory submittals to the USEPA and MassDEP and subject to all necessary approvals.

If you have any question or concerns regarding this letter, please do not hesitate to contact me at (508) 991-6188.

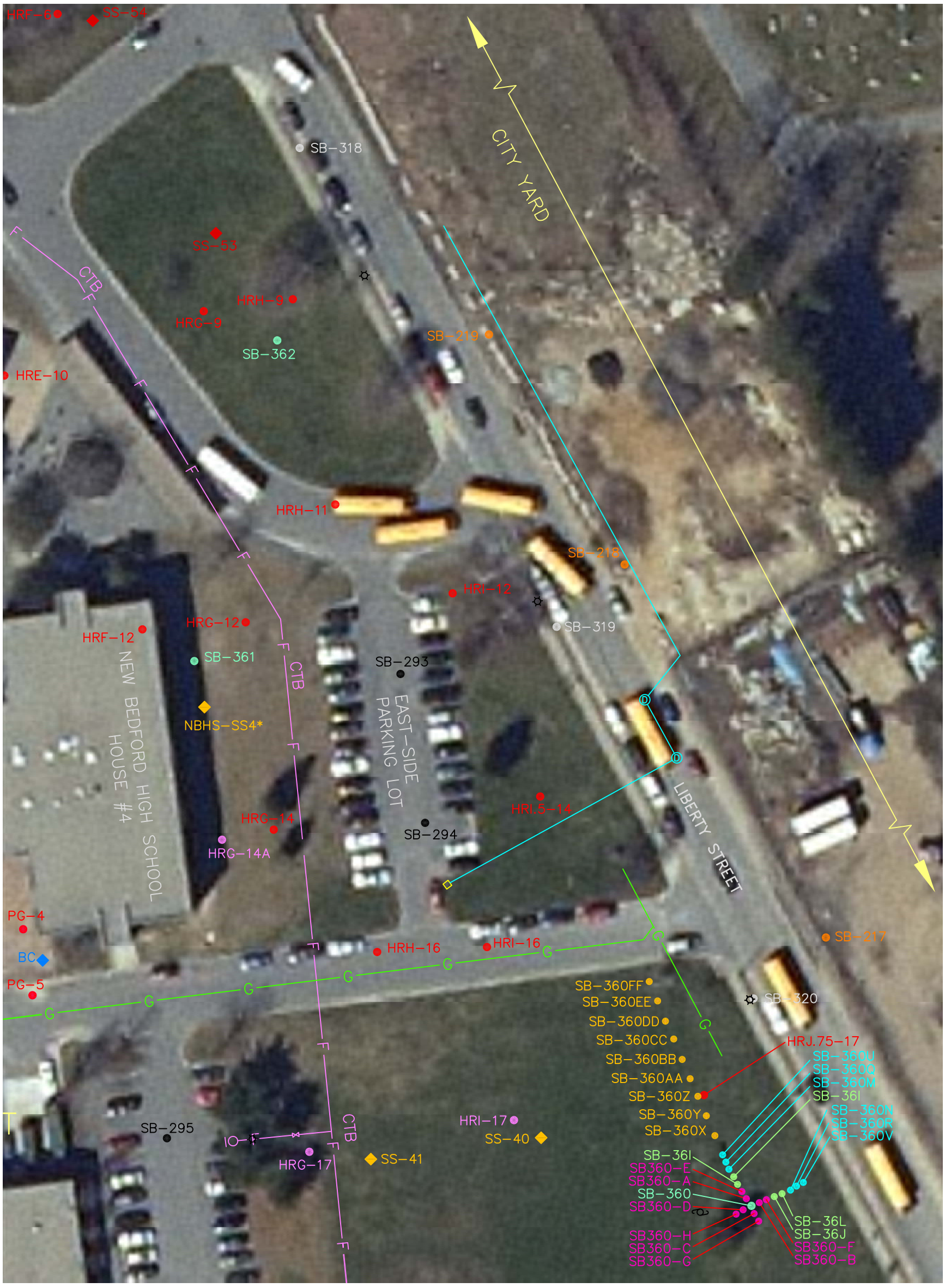
Sincerely,

Scott Alfonse
Director

cc. Molly Cote, Massachusetts Department of Environmental Protection (by electronic PDF)
David J. Fredette, P.E., City of New Bedford (by electronic PDF)
David M. Sullivan, LSP, CHMM, TRC (by electronic PDF)

Attachments

Figure 1 – Sample Locations
Table 1 –Summary of Analytical Results for Soil Samples
Relevant Boring Logs



D APPROXIMATE LOCATION OF PROPOSED DRAINAGE

APPROXIMATE GRAPHIC SCALE

0’ 25’ 50’ 100’

NEW BEDFORD HIGH SCHOOL
LIBERTY STREET DRAINAGE CONSTRUCTION AREA
NEW BEDFORD, MASSACHUSETTS

SAMPLE LOCATIONS

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970–5600

DRAWN BY: HWB
CHECKED BY: AW
DATE: NOV 2009

FIGURE 1

FILE: T:\E_CAD\115058\LIBERTY ST DRAINAGE SAMP LOCS–2.dwg

Table 1
Summary of Analytical Detected Results for Soil Samples
New Bedford High School
New Bedford, MA

Analysis	Analyte							Sample Location:	HRG-17	HRI-17	HRJ.75-17	PG-4	PG-5	NBHS-SS-4	SB-217		SB-218		SB-219		
								Sample Depth (ft.):	1-3	1-3	1-2.5	0-0.5	0-0.5	0-0.5	5	11	4.5	10	4	4	9
								Sample Date:	4/7/2009	4/7/2009	2/21/2006	2/22/2006 BETA	2/22/2006 BETA	8/6/2008	6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/17/2008 Field Dup	6/17/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														
SVOCs																					
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA		0.182 U	0.196 U	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Acenaphthylene	600	10	600	10	1	NA		0.182 U	0.196 U	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA		0.182 U	0.196 U	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Benzo(a)anthracene	7	7	40	40	7	NA		0.182 U	**0.613**	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Benzo(a)pyrene	2	2	4	4	2	NA		0.182 U	**1.97**	NA	NA	NA	NA	**0.643**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Benzo(b)fluoranthene	7	7	40	40	7	NA		0.182 U	**1.89**	NA	NA	NA	NA	**0.410**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	NA		0.182 U	**2.13**	NA	NA	NA	NA	**0.710**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Benzo(k)fluoranthene	70	70	400	400	70	NA		0.182 U	**0.865**	NA	NA	NA	NA	**0.367**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Chrysene	70	70	400	400	70	NA		0.182 U	**0.851**	NA	NA	NA	NA	**0.243**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	NA		0.182 U	**2.01**	NA	NA	NA	NA	**0.810**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA		0.182 U	**0.266**	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA		0.182 U	**3.12**	NA	NA	NA	NA	**1.05**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA		0.182 U	0.196 U	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	2-Methylnaphthalene	80	300	80	500	0.7	NA		0.182 U	**1.16**	NA	NA	NA	NA	**0.380**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Naphthalene	40	500	40	1,000	4	NA		0.182 U	0.196 U	NA	NA	NA	NA	0.229 U	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Phenanthrene	500	500	1,000	1,000	10	NA		0.182 U	**2.60**	NA	NA	NA	NA	**0.930**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA		0.182 U	**3.64**	NA	NA	NA	NA	**1.11**	0.184 U	NA	NA	1.14 U	NA	0.185 U
	Dibenzofuran								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
(mg/kg)	Aroclor 1016/1242	2	2	3	3	2	1		NA	NA	NA	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1016	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	NA	NA	0.055 U	0.0653 U	0.0530 U	0.0581 U	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1221	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	0.2 U	0.2 U	0.055 U	0.0653 U	0.0530 U	0.0581 U	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1232	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	0.1 U	0.1 U	0.055 U	0.0653 U	0.0530 U	0.0581 U	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1242	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	NA	NA	0.055 U	0.0653 U	0.0530 U	0.0581 U	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1248	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	0.1 U	0.1 U	0.055 U	0.0653 U	0.0530 U	0.0581 U	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1254	2	2	3	3	2	1		**0.162 ***	**0.094 ***	**0.76**	0.1 U	0.1 U	0.055 U	0.0653 U	0.0530 U	**0.158 J**	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1260	2	2	3	3	2	1		0.0524 U	0.0587 U	0.029 U	0.1 U	0.1 U	0.055 U	0.0653 U	0.0530 U	**0.0843 J**	0.0534 U	0.0657 U	0.068 U	0.0537 U
	Aroclor 1262	2	2	3	3	2	1		NA	NA	0.029 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	3	3	2	1		NA	NA	0.029 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		**0.162**	**0.094**	**0.76**	0.2 U	0.2 U	0.055 U	0.0653 U	0.0530 U	**0.2423 J**	0.0534 U	0.0657 U	0.068 U	0.0537 U
PCB Homologs																					
(mg/kg)	Monochlorobiphenyl	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
	Dichlorobiphenyl	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
	Trichlorobiphenyl	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
	Tetrachlorobiphenyl	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
	Pentachlorobiphenyl	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
	Hexachlorobiphenyl	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
	Heptachlorobiphenyl	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
	Octachlorobiphenyl	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
	Nonachlorobiphenyl	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
	Decachlorobiphenyl	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
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																					
(mg/kg)	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	**0.111**	0.02 U	NA	NA	**0.281**	NA	0.012 U
	Antimony	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	5.50 U	4.42 U	NA	NA	5.45 U	NA	4.44 U
	Arsenic	20	20	20	20	20	N/A		2.72 U	**3.74**	NA	NA	NA	NA	**15.3**	**2.78**	NA	NA	**17.3**	NA	2.78 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		**9.14**	**106**	NA	NA	NA	NA	**513**	**20.1**	NA	NA	**337**	NA	**13.1**
	Beryllium	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	**0.87**	0.28 U	NA	NA	0.35 U	NA	0.28 U
	Cadmium	2	2	30	30	2	N/A		0.28 U	**0.46**	NA	NA	NA	NA	**1.14**	0.28 U	NA	NA	**2.92**	NA	0.28 U
	Chromium	30	30	200	200	30	N/A		**2.20**	**6.57**	NA	NA	NA	NA	**13.5**	**7.05**	NA	NA	**35.9**	NA	**4.88**
	Lead	300	300	300	300	300	N/A		**11.6**	**218**	NA	NA	NA	NA	**418**	**1.98**	NA	NA	**1,500**	NA	**2.84**
	Nickel	20	20	700	700	20	N/A		NA	NA	NA	NA	NA	NA	**26.3**	**3.64**	NA	NA	**28.9**	NA	**2.68**
	Selenium	400	400	800	800	400	N/A		NA	NA	NA	NA	NA	NA	6.87 U	5.52 U	NA	NA	6.82 U	NA	5.55 U
	Silver	100	100	200	200	100	N/A		NA	NA	NA	NA	NA	NA	**7.72**	**0.65**	NA	NA	**12.2**	NA	0.56 U
	Thallium	8	8	60	60	8	N/A		NA	NA	NA	NA	NA	NA	4.13 U	3.32 U	NA	NA	4.09 U	NA	3.33 U
	Vanadium	600	600	1,000	1,000	600	N/A		NA	NA	NA	NA	NA	NA	**23.3**	**10.9**	NA	NA	**28.5**	NA	**7.94**
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		NA	NA	NA	NA	NA	NA	**560**	**11.4**	NA	NA	**579**	NA	**9.00**

Table 1
Summary of Analytical Detected Results for Soil Samples
New Bedford High School
New Bedford, MA

Analysis	Analyte	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA	SB-293 6.5 7/21/2008	SB-293 9 7/21/2008	SB-293 12 7/21/2008	SB-294 4 7/21/2008	SB-294 8.5 7/21/2008	SB-294 12 7/21/2008	SB-295 5.5 7/22/2008	SB-295 9 7/22/2008	SB-318 4 8/8/2008	SB-318 8 8/8/2008	SB-319 4 8/8/2008	SB-319 7 8/8/2008	SB-320 5 8/8/2008	SB-320 8 8/8/2008
SVOCs																					
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Acenaphthylene	600	10	600	10	1	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Chrysene	70	70	400	400	70	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Naphthalene	40	500	40	1,000	4	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA	0.222 U	0.719 U	NA	NA	NA	NA	NA	NA	NA	NA	0.224 U	0.206 U	NA	NA
	Dibenzofuran							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
(mg/kg)	Aroclor 1016/1242	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1016	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1221	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1232	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1242	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1248	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1254	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1260	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	0.0684 U	0.202 UJ	NA	0.0649 U	0.162 UJ	NA	0.0798 U	0.0531 U	0.0569 U	0.0531 U	0.0630 U	0.0674 U	0.0672 U	0.238 UJ
PCB Homologs																					
(mg/kg)	Monochlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA
	Dichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA
	Trichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.020 U	NA	NA	NA	NA	NA	NA	NA
	Tetrachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.040 U	NA	NA	NA	NA	NA	NA	NA
	Pentachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	**0.057**	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.040 U	NA	NA	NA	NA	NA	NA	NA
	Heptachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.060 U	NA	NA	NA	NA	NA	NA	NA
	Octachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.060 U	NA	NA	NA	NA	NA	NA	NA
	Nonachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA	NA	NA
	Decachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	**0.057**	NA	NA	NA	NA	NA	NA	NA
Metals																					
(mg/kg)	Mercury	20	20	30	30	20	N/A	**0.212**	**0.389**	0.022 U	**1.34**	**0.118**	**0.041**	NA	NA	NA	NA	**0.434**	**0.025**	**0.623**	**0.158**
	Antimony	20	20	30	30	20	N/A	R	R	4.62 U	R	R	4.73 U	NA	NA	NA	NA	5.36 U	4.93 U	**18.7**	16.4 U
	Arsenic	20	20	20	20	20	N/A	**16.1**	**31.6**	2.89 U	**40.6**	**14.0**	**4.27**	NA	NA	NA	NA	**12.4**	**5.00**	**55.8**	10.3 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	**438**	**266**	**15.8**	**1,920**	**170**	**63.9**	NA	NA	NA	NA	**357**	**88.8**	**159**	**46.8**
	Beryllium	100	100	200	200	100	N/A	**0.86**	**1.42**	0.29 U	**0.70**	0.93 U	0.30 U	NA	NA	NA	NA	**1.06**	**0.40**	0.32 U	1.03 U
	Cadmium	2	2	30	30	2	N/A	**0.61**	**16.2**	0.29 U	**2.10**	**3.14**	**2.75**	NA	NA	NA	NA	**0.65**	0.31 U	**7.87**	1.03 U
	Chromium	30	30	200	200	30	N/A	**14.3**	**23.8**	**4.74**	**36.5**	**14.5**	**9.77**	NA	NA	NA	NA	**14.5**	**28.1**	**107**	**8.55**
	Lead	300	300	300	300	300	N/A	**396**	**848**	**3.20**	**3,260**	**790**	**257**	NA	NA	NA	NA	**483**	**13.7**	**2,240**	**15.1**
	Nickel	20	20	700	700	20	N/A	**14.0**	**25.9**	**2.76**	**31.8**	**13.7**	**8.03**	NA	NA	NA	NA	**18.8**	**16.1**	**99.7**	**4.91**
	Selenium	400	400	800	800	400	N/A	6.65 U	21.6 U	5.77 U	6.20 U	18.5 U	5.92 U	NA	NA	NA	NA	6.70 U	6.16 U	6.28 U	20.5 U
	Silver	100	100	200	200	100	N/A	**2.97**	**21.5**	0.58 U	**16.0**	**6.15**	0.60 U	NA	NA	NA	NA	0.67 U	0.62 U	0.63 U	2.05 U
	Thallium	8	8	60	60	8	N/A	R	R	3.47 U	R	R	3.55 U	NA	NA	NA	NA	4.02 U	3.70 U	3.77 U	12.3 U
	Vanadium	600	600	1,000	1,000	600	N/A	**33.8**	**25.5**	**7.68**	**33.5**	18.5 U	**8.72**	NA	NA	NA	NA	**28.9**	**32.3**	**53.3**	**24.5**
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	**185**	**4,500**	**11.1**	**894**	**2,050**	**1,000**	NA	NA	NA	NA	**203**	**51.1**	**3,570**	**149**

Table 1
Summary of Analytical Detected Results for Soil Samples
New Bedford High School
New Bedford, MA

Analysis	Analyte	Sample Location:						SB-360					SB-360A	SB-360B	SB-360C		SB-360D	SB-360E	SB-360F	SB-360G	SB-360I
		Sample Depth (ft.):						0-1	1-3	1-3	5	8	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		Sample Date:						3/4/2009	3/4/2009	3/4/2009 Field Dup	3/4/2009	3/4/2009	3/24/2009	3/24/2009	3/24/2009	3/24/2009 Field Dup	3/24/2009	3/24/2009	3/24/2009	3/24/2009	5/21/2009
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA														
SVOCs																					
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	NA	**0.270**	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	NA	**0.281**	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	NA	**0.376**	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	NA	**0.331**	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA	**0.611**	0.229 U	**0.367**	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	NA	0.206 U	0.229 U	0.236 U	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	NA	**0.441**	**0.234**	**0.256**	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA	**0.502**	0.229 U	**0.334**	0.301 U	0.230 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
(mg/kg)	Aroclor 1016/1242	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1016	2	2	3	3	2	1	0.0575 U	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1221	2	2	3	3	2	1	0.0575 U	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1232	2	2	3	3	2	1	0.0575 U	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1242	2	2	3	3	2	1	0.0575 U	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	2	2	3	3	2	1	0.0575 U	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	3	3	2	1	**0.634** *	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	1	**0.163** *	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	**0.797**	0.0706 U	0.0632 U	0.0822 U	0.0578 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB Homologs																					
(mg/kg)	Monochlorobiphenyl	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
	Dichlorobiphenyl	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
	Trichlorobiphenyl	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
	Tetrachlorobiphenyl	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
	Pentachlorobiphenyl	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
	Hexachlorobiphenyl	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
	Heptachlorobiphenyl	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
	Octachlorobiphenyl	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
	Nonachlorobiphenyl	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
	Decachlorobiphenyl	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
	Total PCBs	2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																					
(mg/kg)	Mercury	20	20	30	30	20	N/A	**0.261**	**0.074**	**0.044**	**0.275**	**0.016**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Antimony	20	20	30	30	20	N/A	4.94 U	5.50 U	5.66 U	7.23 U	5.51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	3.09 U	**12.4**	**11.3**	**14.5**	3.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	6.17 U	**867**	**2,750**	**760**	**10.0**	**4,060**	**2,170**	**403**	**488**	**376**	**1,050**	**1,250**	NA	NA
	Beryllium	100	100	200	200	100	N/A	0.31 U	**1.45**	**1.12**	**0.97**	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	0.31 U	**0.59**	**0.48**	**1.21**	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	30	30	200	200	30	N/A	0.62 U	**15.9**	**39.2**	**16.6**	**4.30**	**54.0**	**17.2**	**12.8**	**13.2**	**10.7**	**21.0**	**74.7**	NA	NA
	Lead	300	300	300	300	300	N/A	0.93 U	**8,110**	**39,600**	**6,870**	**5.53**	**20,200**	**26,700**	**350**	**422**	**148**	**8,550**	**1,070**	**590**	**4,600**
	Nickel	20	20	700	700	20	N/A	0.62 U	**18.8**	**14.6**	**21.5**	**4.54**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	400	400	800	800	400	N/A	6.17 U	6.87 U	7.08 U	9.03 U	6.89 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	0.62 U	0.69 U	0.71 U	0.91 U	0.69 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	8	8	60	60	8	N/A	3.70 U	4.13 U	4.25 U	5.42 U	4.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	6.17 U	**37.1**	**24.7**	**49.4**	6.89 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	**1.59**	**712**	**577**	**423**	**30.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Summary of Analytical Detected Results for Soil Samples
New Bedford High School
New Bedford, MA

Analysis	Analyte							Sample Location:	SB-360J	SB-360L	SB-360M	SB-360O	SB-360Q	SB-360R	SB-360U	SB-360V	SB-360W	SB-360X	
								Sample Depth (ft.):	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
								Sample Date:	5/21/2009	5/21/2009	7/6/2009	7/6/2009	7/6/2009	7/6/2009	7/6/2009	7/6/2009	7/6/2009	8/19/2009	8/19/2009 Field Dup
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA												
SVOCs																			
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Acenaphthylene	600	10	600	10	1	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)anthracene	7	7	40	40	7	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(a)pyrene	2	2	4	4	2	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(b)fluoranthene	7	7	40	40	7	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	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Benzo(k)fluoranthene	70	70	400	400	70	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	70	70	400	400	70	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Methylnaphthalene	80	300	80	500	0.7	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Naphthalene	40	500	40	1,000	4	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Phenanthrene	500	500	1,000	1,000	10	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dibenzofuran								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																			
(mg/kg)	Aroclor 1016/1242	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1016	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1221	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1232	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1242	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1260	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB Homologs																			
(mg/kg)	Monochlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Trichlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Tetrachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Pentachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Hexachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Octachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nonachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Decachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																			
(mg/kg)	Mercury	20	20	30	30	20	N/A		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Antimony	20	20	30	30	20	N/A		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
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		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
	Cadmium	2	2	30	30	2	N/A		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
	Lead	300	300	300	300	300	N/A		**530**	**470**	**860**	**500**	**1,200**	**650**	**9,800**	**320**	**210**	**630**	**750**
	Nickel	20	20	700	700	20	N/A		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
	Silver	100	100	200	200	100	N/A		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
	Vanadium	600	600	1,000	1,000	600	N/A		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

Table 1
Summary of Analytical Detected Results for Soil Samples
New Bedford High School
New Bedford, MA

Analysis	Analyte							Sample Location:	SB-361		SB-362				SS-40		SS-41		SS-53	SS-54
								Sample Depth (ft.):	0-1	1-3	0-1	1-3	5	6.5	0.5	2	0.5	2	0-0.5	0-0.5
								Sample Date:	3/4/2009	3/4/2009	3/4/2009	3/4/2009	3/4/2009	3/4/2009	8/8/2008	8/8/2008	8/8/2008	8/8/2008	12/2/2008	12/2/2008
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1	TSCA													
SVOCs																				
(mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	0.210 U	0.188 U	0.175 U	0.207 U	0.211 U
	Acenaphthylene	600	10	600	10	1	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	0.210 U	0.188 U	0.175 U	0.207 U	0.211 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**0.362**	0.188 U	0.175 U	0.207 U	0.211 U
	Benzo(a)anthracene	7	7	40	40	7	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**1.15**	0.188 U	0.175 U	**0.228**	0.211 U
	Benzo(a)pyrene	2	2	4	4	2	NA		0.174 U	0.176 U	0.178 U	**0.395**	0.221 U	**0.246**	0.507 U	0.195 U	**1.11**	0.188 U	0.175 U	**0.216**	0.211 U
	Benzo(b)fluoranthene	7	7	40	40	7	NA		0.174 U	0.176 U	0.178 U	**0.348**	0.221 U	**0.215**	0.507 U	0.195 U	**1.25**	0.188 U	0.175 U	**0.269**	0.211 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	NA		0.174 U	0.176 U	0.178 U	**0.410**	0.221 U	**0.244**	0.507 U	0.195 U	**0.851**	0.188 U	0.175 U	0.207 U	0.211 U
	Benzo(k)fluoranthene	70	70	400	400	70	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**0.494**	0.188 U	0.175 U	0.207 U	0.211 U
	Chrysene	70	70	400	400	70	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**1.17**	0.188 U	0.175 U	**0.207**	0.211 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	1	NA		0.174 U	0.176 U	0.178 U	**0.417**	0.221 U	**0.272**	0.507 U	0.195 U	**0.217**	0.188 U	0.175 U	0.207 U	0.211 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**2.40**	0.188 U	0.175 U	**0.732**	0.211 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	NA		0.174 U	0.176 U	0.178 U	**0.696**	**0.343**	**0.431**	0.507 U	0.195 U	0.210 U	0.188 U	0.175 U	0.207 U	0.211 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	**0.929**	0.188 U	0.175 U	0.207 U	0.211 U
	2-Methylnaphthalene	80	300	80	500	0.7	NA		0.174 U	0.176 U	0.178 U	**0.192**	0.221 U	0.214 U	0.507 U	0.195 U	0.210 U	0.188 U	0.175 U	0.207 U	0.211 U
	Naphthalene	40	500	40	1,000	4	NA		0.174 U	0.176 U	0.178 U	0.192 U	0.221 U	0.214 U	0.507 U	0.195 U	0.210 U	0.188 U	0.175 U	0.207 U	0.211 U
	Phenanthrene	500	500	1,000	1,000	10	NA		0.174 U	0.176 U	0.178 U	**0.621**	**0.264**	**0.501**	0.507 U	0.195 U	**1.71**	0.188 U	0.175 U	**0.252**	0.211 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	NA		0.174 U	0.176 U	0.178 U	**0.793**	**0.270**	**0.530**	0.507 U	0.195 U	**2.49**	0.188 U	0.175 U	**0.567**	0.211 U
	Dibenzofuran								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs																				
(mg/kg)	Aroclor 1016/1242	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1016	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	0.0613 U	0.0539 U	0.0516 U	0.0618 U	0.0594 U
	Aroclor 1221	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	0.0613 U	0.0539 U	0.0516 U	0.0618 U	0.0594 U
	Aroclor 1232	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	0.0613 U	0.0539 U	0.0516 U	0.0618 U	0.0594 U
	Aroclor 1242	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	0.0613 U	0.0539 U	0.0516 U	0.0618 U	0.0594 U
	Aroclor 1248	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	0.0613 U	0.0539 U	0.0516 U	0.0618 U	0.0594 U
	Aroclor 1254	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	**0.509 ***	**0.0904 ***	**0.154 ***	0.155 U	0.0589 U	**0.444 J**	0.0539 U	0.0516 U	**0.293 J**	**0.0959 J**
	Aroclor 1260	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	0.057 U	0.0615 U	0.0599 U	0.155 U	0.0589 U	**0.174 J**	0.0539 U	0.0516 U	**0.136 J**	**0.123 J**
	Aroclor 1262	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1268	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1		0.053 U	0.0531 U	0.0532 U	**0.509**	**0.0904**	**0.154**	0.155 U	0.0589 U	**0.618 J**	0.0539 U	0.0516 U	**0.429 J**	**0.2189 J**
PCB Homologs																				
(mg/kg)	Monochlorobiphenyl	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
	Dichlorobiphenyl	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
	Trichlorobiphenyl	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
	Tetrachlorobiphenyl	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
	Pentachlorobiphenyl	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
	Hexachlorobiphenyl	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
	Heptachlorobiphenyl	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
	Octachlorobiphenyl	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
	Nonachlorobiphenyl	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
	Decachlorobiphenyl	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
	Total PCBs	2	2	3	3	2	1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																				
(mg/kg)	Mercury	20	20	30	30	20	N/A		**0.016**	0.012 U	0.016 U	**0.213**	**0.088**	**0.120**	**0.183**	**0.032**	**0.654**	**0.037**	0.018 U	**0.070**	**0.063**
	Antimony	20	20	30	30	20	N/A		4.18 U	4.22 U	4.27 U	4.60 U	5.30 U	5.13 U	12.2 U	4.68 U	5.04 U	4.50 U	4.18 U	4.97 U	5.06 U
	Arsenic	20	20	20	20	20	N/A		2.61 U	2.64 U	2.67 U	**5.37**	**9.86**	**6.59**	**12.6**	2.93 U	**7.24**	**2.97**	2.62 U	3.11 U	**3.55**
	Barium	1,000	1,000	3,000	3,000	1,000	N/A		**12.1**	**6.42**	**8.99**	**173**	**271**	**269**	**135**	**13.4**	**410**	**9.05**	**6.93**	**60.4**	**40.2**
	Beryllium	100	100	200	200	100	N/A		0.27 U	0.27 U	0.27 U	0.29 U	**1.11**	**0.70**	**1.56**	0.30 U	**0.43**	0.29 U	0.27 U	0.32 U	0.32 U
	Cadmium	2	2	30	30	2	N/A		0.27 U	0.27 U	0.27 U	**0.84**	**0.59**	**1.35**	**5.77**	0.30 U	**1.53**	0.29 U	0.27 U	**0.34**	**0.33**
	Chromium	30	30	200	200	30	N/A		**2.70**	**1.68**	**3.02**	**15.0**	**21.5**	**18.8**	**47.7**	**5.66**	**15.4**	**5.21**	**3.01**	**10.6**	**9.16**
	Lead	300	300	300	300	300	N/A		**11.7**	**2.12**	**3.67**	**277**	**487**	**448**	**319**	**13.9**	**819**	**9.69**	**12.1**	**67.2**	**54.4**
	Nickel	20	20	700	700	20	N/A		**2.19**	**1.90**	**2.79**	**9.37**	**18.0**	**10.5**	**40.3**	**3.01**	**10.7**	**2.93**	**2.45**	**4.99**	**4.42**
	Selenium	400	400	800	800	400	N/A		5.22 U	5.27 U	5.34 U	5.75 U	6.62 U	6.42 U	15.2 U	5.85 U	6.29 U	5.62 U	5.23 U	6.21 U	6.33 U
	Silver	100	100	200	200	100	N/A		0.53 U	0.53 U	0.54 U	0.58 U	0.67 U	0.65 U	1.52 U	**0.82**	**1.05**	**1.04**	**0.52**	0.63 U	0.64 U
	Thallium	8	8	60	60	8	N/A		3.13 U	3.16 U	3.21 U	3.45 U	3.97 U	3.85 U	9.12 U	3.51 U	3.78 U	3.38 U	3.14 U	3.73 U	3.80 U
	Vanadium	600	600	1,000	1,000	600	N/A		5.22 U	5.27 U	5.34 U	**18.3**	**25.1**	**19.4**	**17.8**	**9.43**	**20.9**	**7.92**	5.23 U	**15.5**	**17.2**
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A		**12.6**	**6.73**	**12.0**	**191**	**99.6**	**264**	**703**	**16.4**	**506**	**11.3**	**11.9**	**47.5**	**47.4**