

SUMMARY OF DATA USABILITY REVIEW
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Data Usability Criterion		Decision	Comments
I	Reports to Risk Assessor	Accept	The following information was provided: Site description and history, Site map, sampling design, sample locations (grid), and laboratory analytical data sheets specifying analytical methods, sample results, sample quantitation limits, and quality control/assurance results.
II	Documentation	Accept	The following documentation was provided: chain of custody records (as part of laboratory analytical data sheets). Field records and standard operating procedures were not systematically reviewed, but were available.
III	Data Sources	Accept	Site map, sampling grid, and GC/MS analytical data on a per sample basis for PCBs, PAHs, metals, and total organic carbon. Field data were not systematically reviewed but were available.
IV	Analytical Methods	Accept	PCBs were extracted/analyzed by EPA Methods 3541/8082 as Aroclor mixtures. PAHs were extracted/analyzed by EPA Methods 3541/8270C. Metals were extracted/analyzed by EPA Methods 3053B/6010B/7471A. Total organic carbon was analyzed by EPA Method 9060. All sediment samples met holding times for extraction and analysis (Table 1). Surrogate recoveries were within acceptable range for 91% of all PCB samples (Table 2). PCB spike samples (LCS samples) had recoveries between 80% and 120% (Table 3).
	Detection Limits/(Sensitivity)	Accept	TSCA residential PCB soil criterion is 1 mg/kg. Quantitation limits for PCBs ranged between 0.005 mg/kg and 1 mg/kg, with only three samples (2%, including QA/QC samples) above 0.2 mg/kg (Table 4). PAH quantitation limits ranged between 0.005 mg/kg to 4.1 mg/kg, quantitation limits were usually below human health criteria but often above ecological sediment criteria. Since PAH non-detections were assumed present at one-half the quantitation limit, exposure estimates may have been biased high. Metal quantitation limits were below both human health and ecological criteria in all samples.
V	Data Review		Data were reviewed as noted below.
VI	Data Quality Indicators		
	A. Completeness	Accept	All samples planned for collection were obtained. All samples submitted for analysis were analyzed and judged suitable for use.
	B. Comparability	Accept	Sampling design was unbiased (grid sampling); same method for collecting and handling samples was followed during both sampling events. Sediment samples were prepared and analyzed by same methods and for the same parameters in both sampling events and attained similar quantitation limits.
	C. Representativeness	Accept	Sampling was conducted according to work plan and adequately represented the Site conditions.
	D. Precision	Accept	Sampling design was unbiased (grid sampling); same method for collecting and handling samples was followed during both sampling events. Field duplicates showed a relative percent difference between 23% and 183%, based on PCB results (Table 5). PCB matrix spikes (MS) and matrix spike duplicates (MSD) showed a relative percent difference between 11% and 58% (Table 6). These outcomes are attributable to the known and unavoidable heterogeneity of the sample matrix and not to laboratory error. For this reason, data were not qualified for duplicates or MS/MSD results. Field blanks were not collected. No PCBs were detected in method blanks (Table 7).
	E. Accuracy	Accept	PCB MS and MSD samples showed a wide range of recoveries, ranging from -1,859% to 629% (Table 4). Negative recoveries were seen only in those samples where the spike/sample PCB concentration ratio was less than 1 (5 or greater is recommended). Because 60% if the MS/MSD samples were performed in samples with a spike/sample concentration ratio less than five (as recommended by MADEP 2004), data were not qualified as a result of MS/MSD results. These outcomes are believed to be related to heterogeneity of the sample matrix, similar to the results we received on the McCoy Field characterization samples.

MADEP (2004) Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data in Support of Response Actions Conducted Under the Massachusetts Contingency Plan (MCP)].

TABLE 1
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - HOLDING TIMES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample Identification	Collection Date	Extraction Date	Analysis Date	Holding Time (Collection to Extraction)	Sample Extracted within 14 days of Collection?	Holding Time (Extraction to Analysis)	Sample Analyzed within 40 days of Extraction?
IW1-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
IW2-0-6"	12/23/04	12/30/04	1/11/05	7	Yes	12	Yes
WA3-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
Duplicate 201 (WA3-0-6")	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WB4-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WB5-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WB6-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WB7-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WC-4	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WC-5	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WC-6	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WC7-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WC8-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WC18-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC19-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
WC20-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
WC21-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
WC22-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC23-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
WC24-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC25-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC26-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC27-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WC.5-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WC.5-5.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WC.5-6.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WC.5-8.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WC.5-9.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WC.5-10.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-11.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-12.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-13.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
Duplicate 222 (WC.5-13.5)	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-14.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-14.5MS	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-14.5MSD	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-15.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-16.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-17.14	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-17.28	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WC.5-18.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-19.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-20.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-21.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-22.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-23.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-24.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
Duplicate 223 (WC.5-24.5)	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-25.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-26.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WC.5-27.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD-3 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes

TABLE 1
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Wetland Area
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Sample Identification	Collection Date	Extraction Date	Analysis Date	Holding Time (Collection to Extraction)	Sample Extracted within 14 days of Collection?	Holding Time (Extraction to Analysis)	Sample Analyzed within 40 days of Extraction?
WD-4 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WD-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WD-5 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
Duplicate 202 (WD-5-0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-6 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-6.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WD-7	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WD8-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WD-9 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-10 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-10.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD-11 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-12 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-13 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-14 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-15 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-15.5	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD-16 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-17 (0-6")	12/22/04	12/22/04	12/27/04	0	Yes	5	Yes
WD-17.46	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD-17.57	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD18-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD19-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD20-0-6"	12/23/04	12/30/04	12/30/04	7	Yes	0	Yes
WD21-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD21-0-6" MS	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD21-0-6" MSD	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD22-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD23-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD24-0-6"	12/23/04	12/30/04	1/7/05	7	Yes	8	Yes
WD25-0-6"	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD25-A-0-6"	1/19/05	1/20/05	1/20/05	1	Yes	0	Yes
WD25-B-0-6"	1/19/05	1/20/05	1/20/05	1	Yes	0	Yes
WD25-C-0-6"	1/19/05	1/20/05	1/20/05	1	Yes	0	Yes
WD25-D-0-6"	1/19/05	1/20/05	1/20/05	1	Yes	0	Yes
WD26-0-6"	12/23/04	12/30/04	1/10/05	7	Yes	11	Yes
Duplicate 203 (WD26-0-6")	12/23/04	12/30/04	1/4/05	7	Yes	5	Yes
WD27-0-6"	12/23/04	12/30/04	1/10/05	7	Yes	11	Yes
WD.5-2.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD.5-3	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD.5-3.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD.5-3.5MS	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD.5-3.5MDS	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WD.5-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WD.5-5.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WD.5-6.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WD.5-17.14	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes

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Sample Identification	Collection Date	Extraction Date	Analysis Date	Holding Time (Collection to Extraction)	Sample Extracted within 14 days of Collection?	Holding Time (Extraction to Analysis)	Sample Analyzed within 40 days of Extraction?
WD.5-17.28	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD.5-17.46	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WD.5-17.57	4/20/05	4/25/05	4/26/05	5	Yes	1	Yes
WE-2.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WE-3 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WE-3.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WE-4 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WE-5 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WE-6	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WE-6 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WE-7	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WE8-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WE.5-2.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WE.5-3	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
Duplicate 220 (WE.5-3)	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WE.5-3.5	4/25/05	4/29/05	5/2/05	4	Yes	3	Yes
WF-3 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WF-4 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WF-5 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WF-6 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WF-7	12/21/04	12/22/04	12/27/04	1	Yes	5	Yes
WF8-0-6"	12/21/04	12/22/04	12/23/04	1	Yes	1	Yes
WG-3 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WG-4 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WG-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WG-5 (0-6")	12/22/04	1/5/05	1/6/05	14	Yes	1	Yes
WG-5 (0-6") MS	12/22/04	1/5/05	1/6/05	14	Yes	1	Yes
WG-5 (0-6") MSD	12/22/04	1/5/05	1/6/05	14	Yes	1	Yes
WG-6	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH-4	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH-5 (0-6")	12/22/04	12/27/04	12/27/04	5	Yes	0	Yes
WH-5.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH.5-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH.5-5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH.5-5MS	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH.5-5MSD	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH.5-5.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WH-6	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI-4	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI-5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI-6	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI.5-4	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI.5-4.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI.5-5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
Duplicate 221 (WI.5-5)	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes
WI.5-5.5	4/22/05	4/29/05	4/30/05	7	Yes	1	Yes

Holding time from sampling to extraction should not exceed 14 days for PCBs in soil (MADEP 2004).

Holding time from extraction to analysis should not exceed 40 days or PCBs in soil (MADEP 2004).

TABLE 2
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - SURROGATE RECOVERIES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample ID	Surrogate Compound		Acceptable Recovery Range ¹	Total PCBs (ug/kg)	Comments
	TCMX	DCBP			
IW1-0-6"	73	75	Yes	270	
IW2-0-6"	Note 1	Note 1	No	5,710	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg). Concentration considered an estimate (J).
WA3-0-6"	98	83	Yes	110	
Duplicate 201 (WA3-0-6")	95	85	Yes	230	
WB4-0-6"	80	80	Yes	68	
WB5-0-6"	83	88	Yes	80	
WB6-0-6"	88	70	Yes	113	
WB7-0-6"	73	80	Yes	ND	
WC-4	80	80	Yes	36	
WC-5	78	78	Yes	74	
WC-6	103	108	Yes	107	
WC7-0-6"	90	93	Yes	640	
WC8-0-6"	94	93	Yes	58	
WC18-0-6"	70	95	Yes	26	
WC19-0-6"	73	110	Yes	110	
WC20-0-6"	95	95	Yes	104	
WC21-0-6"	100	73	Yes	100	
WC22-0-6"	78	80	Yes	68	
WC23-0-6"	70	100	Yes	159	
WC24-0-6"	118	73	Yes	14	
WC25-0-6"	70	73	Yes	71	
WC26-0-6"	90	93	Yes	76	
WC27-0-6"	100	108	Yes	41	
WC.5-4.5	130	130	Yes	4,069	
WC.5-5.5	120	118	Yes	90	
WC.5-6.5	103	95	Yes	ND	
WC.5-8.5	118	100	Yes	94	
WC.5-9.5	103	98	Yes	135	
WC.5-10.5	90	103	Yes	ND	
WC.5-11.5	98	75	Yes	36	
WC.5-12.5	78	80	Yes	ND	
WC.5-13.5	98	83	Yes	232	
Duplicate 222 (WC.5-13.5)	123	75	Yes	105	
WC.5-14.5	105	110	Yes	922	
WC.5-14.5MS	115	83	Yes	500	
WC.5-14.5MSD	105	108	Yes	90	
WC.5-15.5	115	93	Yes	175	
WC.5-16.5	78	130	Yes	ND	
WC.5-17.14	88	130	Yes	441	
WC.5-17.28	90	120	Yes	546	
WC.5-18.5	125	118	Yes	135	
WC.5-19.5	123	113	Yes	ND	
WC.5-20.5	123	115	Yes	ND	
WC.5-21.5	83	80	Yes	72	
WC.5-22.5	118	123	Yes	1,160	
WC.5-23.5	125	120	Yes	379	
WC.5-24.5	103	128	Yes	1,520	
Duplicate 223 (WC.5-24.5)	25	18	No	67	The case narrative reads "The heavily contaminated sample "Duplicate 223" underwent multiple cleaning procedures. The surrogates were below the acceptable limits as a result of a matrix effect."
WC.5-25.5	130	118	Yes	119	
WC.5-26.5	100	98	Yes	140	
WC.5-27.5	100	128	Yes	2,820	
WD-3 (0-6")	113	88	Yes	160	
WD-4 (0-6")	118	88	Yes	240	
WD-4.5	110	105	Yes	330	

TABLE 2
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - SURROGATE RECOVERIES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample ID	Surrogate Compound		Acceptable Recovery Range ¹	Total PCBs (ug/kg)	Comments
	TCMX	DCBP			
WD-5 (0-6")	85	118	Yes	4,730	
Duplicate 202 (WD-5-0-6")	103	95	Yes	3,740	
WD-6 (0-6")	93	130	Yes	2,250	
WD-6.5	130	118	Yes	93	
WD-7	108	113	Yes	571	
WD8-0-6"	100	83	Yes	151	
WD-9 (0-6")	83	78	Yes	560	
WD-10 (0-6")	93	103	Yes	1,020	
WD-10.5	100	83	Yes	64	
WD-11 (0-6")	Note 2	83	No	5,420	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD-12 (0-6")	70	123	Yes	4,060	
WD-13 (0-6")	83	105	Yes	ND	
WD-14 (0-6")	80	Note 2	No	8,910	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD-15 (0-6")	70	90	Yes	3,900	
WD-15.5	80	100	Yes	33	
WD-16 (0-6")	73	130	Yes	ND	
WD-17 (0-6")	73	80	Yes	1,080	
WD-17.46	73	90	Yes	282	
WD-17.57	128	70	Yes	35	
WD18-0-6"	78	80	Yes	724	
WD19-0-6"	93	130	Yes	2,090	
WD20-0-6"	108	110	Yes	22	
WD21-0-6"	75	Note 2	No	1,390	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD21-0-6" MS	98	85	Yes	479	
WD21-0-6" MSD	90	128	Yes	547	
WD22-0-6"	83	88	Yes	96	
WD23-0-6"	83	Note 2	No	9,480	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD24-0-6"	93	Note 2	No	3,850	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD25-0-6"	Note 2	Note 2	No	11,800	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg). Concentration considered an estimate (J).
WD25-A-0-6"	88	90	Yes	419	
WD25-B-0-6"	98	105	Yes	482	
WD25-C-0-6"	78	83	Yes	459	
WD25-D-0-6"	90	90	Yes	987	
WD26-0-6"	90	93	Yes	2,770	
Duplicate 203 (WD26-0-6")	70	Note 2	No	5,510	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD27-0-6"	80	Note 2	No	4,100	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg).
WD.5-2.5	78	75	Yes	4,340	
WD.5-3	128	Note 2	No	655	
WD.5-3.5	118	98	Yes	1,130	
WD.5-3.5MS	118	115	Yes	1,780	
WD.5-3.5MDS	96	91	Yes	3,010	
WD.5-4.5	89	84	Yes	ND	
WD.5-5.5	128	128	Yes	ND	
WD.5-6.5	95	83	Yes	ND	
WD.5-17.14	113	83	Yes	65	
WD.5-17.28	110	85	Yes	ND	
WD.5-17.46	110	83	Yes	118	
WD.5-17.57	Note 2	Note 2	No	9,380	Material to be excavated due to PCBs > 1,000 ug/kg (1 mg/kg). Concentration considered an estimate (J).
WE-2.5	123	Note 2	No	777	

TABLE 2
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - SURROGATE RECOVERIES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample ID	Surrogate Compound		Acceptable Recovery Range ¹	Total PCBs (ug/kg)	Comments
	TCMX	DCBP			
WE-3 (0-6")	110	98	Yes	1,950	
WE-3.5	85	80	Yes	ND	
WE-4 (0-6")	108	110	Yes	122	
WE-5 (0-6")	93	113	Yes	320	
WE-6	83	108	Yes	ND	
WE-6 (0-6")	73	98	Yes	ND	
WE-7	100	80	Yes	ND	
WE8-0-6"	103	80	Yes	44	
WE.5-2.5	103	105	Yes	601	
WE.5-3	110	103	Yes	ND	
Duplicate 220 (WE.5-3)	130	127	Yes	ND	
WE.5-3.5	70	80	Yes	ND	
WF-3 (0-6")	98	93	Yes	740	
WF-4 (0-6")	93	90	Yes	640	
WF-5 (0-6")	100	98	Yes	ND	
WF-6 (0-6")	103	103	Yes	270	
WF-7	95	103	Yes	104	
WF8-0-6"	88	80	Yes	325	
WG-3 (0-6")	85	90	Yes	ND	
WG-4 (0-6")	75	90	Yes	280	
WG-4.5	110	130	Yes	1,162	
WG-5 (0-6")	105	90	Yes	ND	
WG-5 (0-6") MS	105	98	Yes	5,850	
WG-5 (0-6") MSD	103	128	Yes	4,940	
WG-6	125	115	Yes	ND	
WH-4	71	71	Yes	113	
WH-4.5	111	101	Yes	ND	
WH-5 (0-6")	75	95	Yes	3,940	
WH-5.5	98	95	Yes	100	
WH.5-4.5	118	128	Yes	86	
WH.5-5	103	98	Yes	77	
WH.5-5MS	108	110	Yes	647	
WH.5-5MSD	125	113	Yes	788	
WH.5-5.5	128	130	Yes	56	
WH-6	110	98	Yes	ND	
WI-4	83	83	Yes	240	
WI-5	78	76	Yes	90	
WI-6	84	71	Yes	254	
WI.5-4	96	90	Yes	45	
WI.5-4.5	113	113	Yes	85	
WI.5-5	128	116	Yes	1,123	
Duplicate 221 (WI.5-5)	111	104	Yes	458	
WI.5-5.5	113	113	Yes	74	
Total No. Samples				146	
Percent samples with surrogate(s) within acceptable range				91.1%	

Of the 13 samples for which surrogate recoveries were not within the acceptable range, 10 samples contained PCBs > 1,000 ug/kg and the material will be excavated and shipped off-site.

Data qualified with a "J" if both surrogates were outside of acceptable recovery range.

ug/kg = micrograms per kilogram.

TCMX = Tetrachloro-*meta*-xylene.

DCBP = Decachlorobiphenyl.

ND = Not detected.

1. Acceptable recovery ranges are 19%-139% for TCMX and 29%-155% for DCBP.

Note 1. Recovery not reported; surrogate states as "obscured by profile."

Note 2. Recovery not reported; surrogate stated as "diluted out."

TABLE 3
WETLAND SEDIMENT SAMPLES
DATAT QUALITY ASSESSMENT - LCS SAMPLES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

NetLab Laboratory Case Number	Date Analyzed	Spike Compound	Spike Concentration (mg/kg)	Analytical Result (mg/kg)	% Recovery ¹
P1221-22	12/27/04	1254-1	0.50	0.47	94
P1221-23	12/27/04	1254-1	0.50	0.47	94
P1222-21	12/30/04	1254-1	0.50	0.45	90
P1222-22	12/27/04	1254-1	0.50	0.47	94
P1222-22	01/06/05	1254-1	0.50	0.5	100
P1223-18	12/31/04	1254-1	0.50	0.6	120
P1223-19	12/31/04	1254-1	0.50	0.6	120
Q0119-12	01/20/05	1016-1	1.00	0.8	80
Q0421-11	04/26/05	1254-1	0.50	0.5	100
Q0425-03	04/30/05	1254-1	0.50	0.47	94
Q0426-12	04/30/05	1254-1	0.50	0.47	94

1. % Recovery = [(Spike Concentration) / (Analytical Result)] x 100.

Recovery should be within the acceptable range of 40 to 140%

mg/kg = milligrams per kilogram.

TABLE 4
PCB ANALYTICAL RESULTS
WETLAND SEDIMENT SAMPLES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample Identification	Depth	Collection Date	Total PCBs (ug/kg)	Aroclor-1254		Aroclor-1260	
				(ug/kg)	RL	(ug/kg)	RL
IW1-0-6"	0-6"	12/23/04	270	270	10	ND	U 10
IW2-0-6"	0-6"	12/23/04	5,710 J	5,710 J	10	ND	U 10
WA3-0-6"	0-6"	12/21/04	110	110	5	ND	U 5
Duplicate 201 (WA3-0-6")	0-6"	12/21/04	230	230	6	ND	U 6
WB4-0-6"	0-6"	12/21/04	68	68	10	ND	U 10
WB5-0-6"	0-6"	12/21/04	80	80	14	ND	U 14
WB6-0-6"	0-6"	12/21/04	113	113	28	ND	U 28
WB7-0-6"	0-6"	12/21/04	ND	ND U	25	ND	U 25
WC-4	0-6"	12/21/04	36	36	23	ND	U 23
WC-5	0-6"	12/21/04	74	74	26	ND	U 26
WC-6	0-6"	12/21/04	107	107	21	ND	U 21
WC7-0-6"	0-6"	12/21/04	640	640	19	ND	U 19
WC8-0-6"	0-6"	12/21/04	58	58	28	ND	U 28
WC18-0-6"	0-6"	12/23/04	26	26	10	ND	U 10
WC19-0-6"	0-6"	12/23/04	110	110	10	ND	U 10
WC20-0-6"	0-6"	12/23/04	104	104	10	ND	U 10
WC21-0-6"	0-6"	12/23/04	100	100	10	ND	U 10
WC22-0-6"	0-6"	12/23/04	68	68	10	ND	U 10
WC23-0-6"	0-6"	12/23/04	159	159	10	ND	U 10
WC24-0-6"	0-6"	12/23/04	14	14	10	ND	U 10
WC25-0-6"	0-6"	12/23/04	71	71	10	ND	U 10
WC26-0-6"	0-6"	12/23/04	76	76	10	ND	U 10
WC27-0-6"	0-6"	12/23/04	41	41	10	ND	U 10
WC.5-4.5	0-6"	4/22/05	4,069	2,315	87	1,754	87
WC.5-5.5	0-6"	4/22/05	90	90	62	ND	U 62
WC.5-6.5	0-6"	4/22/05	ND	ND U	85	ND	U 85
WC.5-8.5	0-6"	4/22/05	94	94	56	ND	U 56
WC.5-9.5	0-6"	4/22/05	135	135	66	ND	U 66
WC.5-10.5	0-6"	4/20/05	ND	ND U	44	ND	U 44
WC.5-11.5	0-6"	4/20/05	36	36	30	ND	U 30
WC.5-12.5	0-6"	4/20/05	ND	ND U	37	ND	U 37
WC.5-13.5	0-6"	4/20/05	232	232	35	ND	U 35
Duplicate 222 (WC.5-13.5)	0-6"	4/20/05	105	105	27	ND	U 27
WC.5-14.5	0-6"	4/20/05	922	922	20	ND	U 20
WC.5-14.5MS	0-6"	4/20/05	500	500	18	ND	U 18
WC.5-14.5MSD	0-6"	4/20/05	90	90	19	ND	U 19
WC.5-15.5	0-6"	4/20/05	175	175	22	ND	U 22
WC.5-16.5	0-6"	4/20/05	ND	ND U	7	ND	U 7
WC.5-17.14	0-6"	4/20/05	441	441	28	ND	U 28
WC.5-17.28	0-6"	4/20/05	546	546	13	ND	U 13
WC.5-18.5	0-6"	4/25/05	135	135	17	ND	U 17
WC.5-19.5	0-6"	4/25/05	ND	ND U	12	ND	U 12
WC.5-20.5	0-6"	4/25/05	ND	ND U	19	ND	U 19
WC.5-21.5	0-6"	4/25/05	72	72	17	ND	U 17
WC.5-22.5	0-6"	4/25/05	1,160	1,160	21	ND	U 21
WC.5-23.5	0-6"	4/25/05	379	379	19	ND	U 19
WC.5-24.5	0-6"	4/25/05	1,520	1,520	23	ND	U 23
Duplicate 223 (WC.5-24.5)	0-6"	4/25/05	67	67	32	ND	U 32
WC.5-25.5	0-6"	4/25/05	119	119	17	ND	U 17
WC.5-26.5	0-6"	4/25/05	140	140	19	ND	U 19
WC.5-27.5	0-6"	4/25/05	2,820	2,820	12	ND	U 12

TABLE 4
PCB ANALYTICAL RESULTS
WETLAND SEDIMENT SAMPLES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample Identification	Depth	Collection Date	Total PCBs (ug/kg)	Aroclor-1254		Aroclor-1260	
				(ug/kg)	RL	(ug/kg)	RL
WD-3 (0-6")	0-6"	12/22/04	160	160	10	ND	U 10
WD-4 (0-6")	0-6"	12/22/04	240	240	10	ND	U 10
WD-4.5	0-6"	4/22/05	330	330	66	ND	U 66
WD-5 (0-6")	0-6"	12/22/04	4,730	4,730	10	ND	U 10
Duplicate 202 (WD-5-0-6")	0-6"	12/22/04	3,740	3,740	10	ND	U 10
WD-6 (0-6")	0-6"	12/22/04	2,250	2,250	10	ND	U 10
WD-6.5	0-6"	4/22/05	93	93	71	ND	U 71
WD-7	0-6"	12/21/04	571	571	14	ND	U 14
WD8-0-6"	0-6"	12/21/04	151	151	21	ND	U 21
WD-9 (0-6")	0-6"	12/22/04	560	560	10	ND	U 10
WD-10 (0-6")	0-6"	12/22/04	1,020	1,020	10	ND	U 10
WD-10.5	0-6"	4/20/05	64	64	33	ND	U 33
WD-11 (0-6")	0-6"	12/22/04	5,420	5,420	10	ND	U 10
WD-12 (0-6")	0-6"	12/22/04	4,060	4,060	10	ND	U 10
WD-13 (0-6")	0-6"	12/22/04	ND	ND U	10	ND	U 10
WD-14 (0-6")	0-6"	12/22/04	8,910	8,910	10	ND	U 10
WD-15 (0-6")	0-6"	12/22/04	3,900	3,900	10	ND	U 10
WD-15.5	0-6"	4/20/05	33	33	10	ND	U 10
WD-16 (0-6")	0-6"	12/22/04	ND	ND U	10	ND	U 10
WD-17 (0-6")	0-6"	12/22/04	1,080	1,080	10	ND	U 10
WD-17.46	0-6"	4/20/05	282	282	26	ND	U 26
WD-17.57	0-6"	4/20/05	35	35	13	ND	U 13
WD18-0-6"	0-6"	12/23/04	724	724	10	ND	U 10
WD19-0-6"	0-6"	12/23/04	2,090	2,090	10	ND	U 10
WD20-0-6"	0-6"	12/23/04	22	22	10	ND	U 10
WD21-0-6"	0-6"	12/23/04	1,390	1,390	10	ND	U 10
WD21-0-6" MS	0-6"	12/23/04	479	479	10	ND	U 10
WD21-0-6" MSD	0-6"	12/23/04	547	547	10	ND	U 10
WD22-0-6"	0-6"	12/23/04	96	96	10	ND	U 10
WD23-0-6"	0-6"	12/23/04	9,480	9,480	10	ND	U 10
WD24-0-6"	0-6"	12/23/04	3,850	3,850	10	ND	U 10
WD25-0-6"	0-6"	12/23/04	11,800 J	11,800 J	10	ND	U 10
WD25-A-0-6"	0-6"	1/19/05	419	419	50	ND	U 50
WD25-B-0-6"	0-6"	1/19/05	482	482	48	ND	U 48
WD25-C-0-6"	0-6"	1/19/05	459	459	50	ND	U 50
WD25-D-0-6"	0-6"	1/19/05	987	987	50	ND	U 50
WD26-0-6"	0-6"	12/23/04	2,770	2,770	10	ND	U 10
Duplicate 203 (WD26-0-6")	0-6"	12/23/04	5,510	5,510	10	ND	U 10
WD27-0-6"	0-6"	12/23/04	4,100	4,100	10	ND	U 10
WD.5-2.5	0-6"	4/25/05	4,340	4,340	14	ND	U 14
WD.5-3	0-6"	4/25/05	655	655	16	ND	U 16
WD.5-3.5	0-6"	4/25/05	1,130	1,130	56	ND	U 56
WD.5-3.5MS	0-6"	4/25/05	1,780	1,780	47	ND	U 47
WD.5-3.5MDS	0-6"	4/25/05	3,010	3,010	75	ND	U 75
WD.5-4.5	0-6"	4/22/05	ND	ND U	83	ND	U 83
WD.5-5.5	0-6"	4/22/05	ND	ND U	78	ND	U 78
WD.5-6.5	0-6"	4/22/05	ND	ND U	80	ND	U 80
WD.5-17.14	0-6"	4/20/05	65	65	22	ND	U 22
WD.5-17.28	0-6"	4/20/05	ND	ND U	13	ND	U 13
WD.5-17.46	0-6"	4/20/05	118	118	23	ND	U 23
WD.5-17.57	0-6"	4/20/05	9,380 J	9,380 J	17	ND	U 17

TABLE 4
PCB ANALYTICAL RESULTS
WETLAND SEDIMENT SAMPLES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Sample Identification	Depth	Collection Date	Total PCBs (ug/kg)	Aroclor-1254		Aroclor-1260			
				(ug/kg)	RL	(ug/kg)	RL		
WE-2.5	0-6"	4/25/05	777	777	15	ND	U	15	
WE-3 (0-6")	0-6"	12/22/04	1,950	1,950	10	ND	U	10	
WE-3.5	0-6"	4/25/05	ND	ND	U	83	ND	U	83
WE-4 (0-6")	0-6"	12/22/04	122	122	10	ND	U	10	
WE-5 (0-6")	0-6"	12/22/04	320	320	10	ND	U	10	
WE-6	0-6"	12/21/04	ND	ND	U	22	ND	U	22
WE-6 (0-6")	0-6"	12/22/04	ND	ND	U	10	ND	U	10
WE-7	0-6"	12/21/04	ND	ND	U	18	ND	U	18
WE8-0-6"	0-6"	12/21/04	44	44	21	ND	U	21	
WE.5-2.5	0-6"	4/25/05	601	601	61	ND	U	61	
WE.5-3	0-6"	4/25/05	ND	ND	U	111	ND	U	111
Duplicate 220 (WE.5-3)	0-6"	4/25/05	ND	ND	U	74	ND	U	74
WE.5-3.5	0-6"	4/25/05	ND	ND	U	76	ND	U	76
WF-3 (0-6")	0-6"	12/22/04	740	740	10	ND	U	10	
WF-4 (0-6")	0-6"	12/22/04	640	640	10	ND	U	10	
WF-5 (0-6")	0-6"	12/22/04	ND	ND	U	10	ND	U	10
WF-6 (0-6")	0-6"	12/22/04	270	270	10	ND	U	10	
WF-7	0-6"	12/21/04	104	104	21	ND	U	21	
WF8-0-6"	0-6"	12/21/04	325	325	18	ND	U	18	
WG-3 (0-6")	0-6"	12/22/04	ND	ND	U	10	ND	U	10
WG-4 (0-6")	0-6"	12/22/04	280	280	10	ND	U	10	
WG-4.5	0-6"	4/22/05	1,162	870	23	292		23	
WG-5 (0-6")	0-6"	12/22/04	ND	ND	U	1000	ND	U	1000
WG-5 (0-6") MS	0-6"	12/22/04	5,850	5,850	980	ND	U	980	
WG-5 (0-6") MSD	0-6"	12/22/04	4,940	4,940	980	ND	U	980	
WG-6	0-6"	4/22/05	ND	ND	U	12	ND	U	12
WH-4	0-6"	4/22/05	113	113	30	ND	U	30	
WH-4.5	0-6"	4/22/05	ND	ND	U	15	ND	U	15
WH-5 (0-6")	0-6"	12/22/04	3,940	3,940	10	ND	U	10	
WH-5.5	0-6"	4/22/05	100	100	26	ND	U	26	
WH.5-4.5	0-6"	4/22/05	86	86	14	ND	U	14	
WH.5-5	0-6"	4/22/05	77	77	28	ND	U	28	
WH.5-5MS	0-6"	4/22/05	647	647	23	ND	U	23	
WH.5-5MSD	0-6"	4/22/05	788	788	23	ND	U	23	
WH.5-5.5	0-6"	4/22/05	56	56	17	ND	U	17	
WH-6	0-6"	4/22/05	ND	ND	U	35	ND	U	35
WI-4	0-6"	4/22/05	240	240	70	ND	U	70	
WI-5	0-6"	4/22/05	90	90	25	ND	U	25	
WI-6	0-6"	4/22/05	254	254	39	ND	U	39	
WI.5-4	0-6"	4/22/05	45	45	23	ND	U	23	
WI.5-4.5	0-6"	4/22/05	85	85	45	ND	U	45	
WI.5-5	0-6"	4/22/05	1,123	1,123	59	ND	U	59	
Duplicate 221 (WI.5-5)	0-6"	4/22/05	458	458	48	ND	U	48	
WI.5-5.5	0-6"	4/22/05	74	74	42	ND	U	42	
TSCA Residential Limit			1,000						

Shading indicates concentration exceeds TSCA residential level of 1,000 ug/kg (1 mg/kg).
Aroclor 1221, -1232, -1016/1242, -1248, -1262, and -1268 were not detected at any location.
ND; U = Not detected above reporting limit (RL).
J = Estimated concentration.
ug/kg = micrograms per kilogram.

TABLE 5
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - DUPLICATES
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Duplicate			Corresponding Sample			Relative Percent Difference (RPD) ¹	In Acceptable Range? (<50 %)
ID	Total PCBs (ug/kg)	Reporting Limit	ID	Total PCBs (ug/kg)	Reporting Limit		
Duplicate 201	230	6	WA3-0-6"	110	5	71	NO
Duplicate 202	3,740	10	WD-5-0-6"	4,730	10	23	YES
Duplicate 203	5,510	10	WD26-0-6"	2,770	10	66	NO
Duplicate 220	ND	74	WE.5-3	ND	111	--	--
Duplicate 221	458	48	WI.5-5	1,123	59	84	NO
Duplicate 222	105	27	WC.5-13.5	232	35	75	NO
Duplicate 223	67	32	WC.5-24.5	1,520	23	183	NO

ug/kg = micrograms per kilogram.

ND = Not detected.

1. $RPD = [(range)/(mean)] \times 100.$

TABLE 6
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - ACCURACY
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

Date	Matrix Spike						Matrix Spike Duplicate						Spike Relative Percent Difference ³	In Range? (< 50 %)
	ID	Total PCBs (ug / kg)			Ratio Spike / Sample ¹	% Recovery ²	ID	Total PCBs (ug / kg)			Ratio Spike / Sample ¹	% Recovery ²		
		Sample Result	MS Fortification	Spike Result				Sample Result	MS Fortification	Spike Result				
04/20/05	WC.5-14.5MS	922	88	500	0.5	-480	WC.5-14.5MSD	922	95	90	0.1	-876	-58.47	NO
12/23/04	WD21-0-6" MS	1,390	49	479	0.3	-1859	WD21-0-6" MSD	1,390	51	547	0.4	-1653	-11.74	YES
04/25/05	WD.5-3.5MS	1,131	236	1,783	1.6	276	WD.5-3.5MSD	1,131	375	3,010	2.7	501	57.84	NO
12/22/04	WG-5 (0-6") MS 4 ^d	500	4,907	5,849	11.7	109	WG-5 (0-6") MSD	500	4,905	4,984	10	91	17.55	YES
04/22/05	WH.5-5MS	77	114	647	8.4	500	WH.5-5MSD	77	113	788	10	629	22.88	YES

ug/kg = micrograms per kilogram.

1. Ratio should be 5 or greater [MADEP (2004) Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data in Support of Response Actions Conducted Under the Massachusetts Contingency Plan (MCP)].

2. % Recovery = [(|Spike - Sample|) / Fortification] x 100

3.

$$RPD = \frac{\%Recovery_{spike} - \%Recovery_{spikedup}}{\left(\frac{\%Recovery_{spike} + \%Recovery_{spikedup}}{2} \right)} \cdot 100$$

4. No detectable PCBs in sample; sample result is actually one-half of the quantitation limit of 1 mg/kg. Lab used sample result of "0."

TABLE 7
WETLAND SEDIMENT SAMPLES
DATA QUALITY ASSESSMENT - METHOD BLANKS
Former McCoy Field
Wetland Area
New Bedford, Massachusetts

NetLab Laboratory Case Number	Date Analyzed	PCBs Detected?	Reporting Limit (ug / kg)	Surrogate Recoveries	
				TCMX	DCBP
P1221-22	12/23/04	No	4	93	80
P1221-33	12/27/04	No	4	93	80
P1222-21	12/27/04	No	10	113	118
P1222-22	12/27/04	No	10	93	80
P1222-22	01/06/05	No	10	90	80
P1223-18	12/30/04	No	10	80	80
P1223-19	12/30/04	No	10	80	80
Q0119-12	01/20/05	No	50	90	101
Q0421-11	04/26/05	No	10	70	93
Q0425-03	04/30/05	No	10	83	88
Q0426-12	05/02/05	No	10	83	88

ug/kg = micrograms per kilogram.

TCMX = Tetrachloro-*meta*-xylene.

DCBP = decachlorobiphenyl.

Surrogate recoveries within the acceptable range of 40 to 140%.