

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 9/15/2016

Sampling Date	PCB Concentration by Location (ng/m ³ in 24-hour time-weighted average) ¹																									Activity Period												
	24 Aerovox		25 Manomet		25 Cliftex		27 Porter		30 Fibre Leather		42 NSTAR North		43 Veranda		44 Taber		46 Coffin		Area C			Area D			53 Dredge	Aerovox West	Acushnet Park	Riverside Park	Pearl	Popes	Washburn	South Fence	Century House	Boathouse	Pilgrim	LHCC Dredge	Huttleston	Revere
																			47	48	49	50	51	52	Dredge	Aerovox West	Acushnet Park	Riverside Park	Pearl	Popes	Washburn	South Fence	Century House	Boathouse	Pilgrim	LHCC Dredge	Huttleston	Revere
08/18/16	NS	NS		NS	NS	NS	NS	NS	97.6	19.1	NS	17.1/ 17.1d	NS	NS	6.56	NS	NS	NS	NS				3.24	10.5	12.6				11.6	30.1	11.6	9.95	2016 Lower Harbor Dredging in Area 35B. Dredge was sampled. Unvalidated results.					
08/11/16	NS	61.1		32.2	35.2/39.2d	35.6	NS	NS	NS	NS	NS	NS	NS	NS	704	NS				NS	NS	NS					NS	NS	NS	NS	2016 Upper Harbor Debris Removal. Debris Barge was sampled. Unvalidated results.							
07/27/16	NS	NS		NS	NS	NS	NS	42.9	23.7	NS	18.1/ 16.5 d	NS	NS	12.3	NS	NS	NS	NS				0.440	7.36	32.4				11.2	83.1	6.43	13.5	2016 Lower Harbor Dredging. Dredge was sampled. Unvalidated results.						
07/20/16	NS	95.1		22.8	56.9/52.0 d	33.2	NS	NS	25.3	NS	NS	NS	NS	NS	513	NS				NS	NS	NS				NS	NS	NS	NS	2016 Upper Harbor Debris Removal. Debris Barge was sampled. Unvalidated results.								
06/27/16	NS	NS		NS	NS	NS	NS	21.8	32.8	NS	14.4/13. 4d	NS	NS	8.15	NS	NS	NS	NS				0.473	9.53	48.6				13.92	63.0	6.63	8.96	2016 Lower Harbor Debris Removal. Debris Barge was sampled.						
06/13/16	NS	10.0		14.4	NS	NS	NS	36.5	NS	0.630	6.37/5.4 5d	NS	NS	NS	NS	47.1	NS			NS	NS	NS				NS	NS	NS	NS	2016 Upper Harbor Debris Removal. Debris Barge was sampled.								
05/23/16	NS	NS		NS	NS	NS	NS	11.9	1.88	NS	28.2	NS	NS	23.8/24. 0d	NS	NS	NS	NS				5.59	3.38	22.1				3.93	15.1	1.32	21.9	2016 Lower Harbor Debris Removal. Debris Barge was sampled.						
05/16/16	NS	5.89		11.8	NS	NS	NS	41.7	NS	3.96	3.86/2.4 0d	NS	NS	NS	NS	34.9	NS			NS	NS	NS				NS	NS	NS	NS	2016 Upper Harbor Debris Removal. Debris Barge was sampled.								
04/25/16	NS	NS		NS	NS	NS	NS	10.9	6.02	NS	14.7	NS	NS	6.55/6.4 6d	NS	NS	NS	NS				2.26	7.43	11.6				6.28	8.57	3.43	6.04	2016 Lower Harbor Dredging and Debris Removal. Dredge was sampled.						
03/22/16	NS	NS		NS	NS	NS	NS	12.6	7.48	NS	2.38/2.1 6d	NS	NS	0.578	NS	NS	NS	NS				0.080	2.53	0.55				6.38	8.81	5.25	0.379	2016 Lower Harbor Dredging and Debris Removal. Dredge was sampled.						
02/18/16	NS	NS		NS	NS	NS	NS	4.88	1.34	0.114	2.69	NS	NS	0.979/1. 13d	NS	NS	NS	NS				0.00	1.33	1.10				0.864	3.36	1.62	0.870	2016 Combined Lower Harbor Dredging and Parcel 265 Excavation monitoring events.						
01/26/16	NS	NS		NS	NS	NS	NS	14.1	4.39	NS	4.82	NS	NS	0.867/1. 08d	NS	NS	NS	NS				0.208	2.04	0.965				4.75	NS	2.07	0.278	2016 Lower Harbor Debris Removal only.						
01/21/16	NS	NS		NS	NS	NS	NS	2.81	0.787	0.076	0.916	NS	NS	NS	NS	NS	NS	NS				NS	NS	0.071			NS	NS	NS	NS	2016 Parcel 265 Excavation air monitoring event. Pump #21 stopped at 1033.							
01/18/16	0.216	0.329		NS	0.0185	11.9	1.68	0.496	0.138	0.298	NS	NS	0.102/ 0.117 D	NS	NS	NS	0.00348				NS	NS	NS				1.87	NS	NS	NS	2016 Upper Harbor Post-Dredge Sampling Event. Location #27 Porter not sampled due to lack of access caused by snow.							
12/15/15	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.12	NS	NS	NS	NS				0.707	NA	4.55				6.35	13.5/13.2d	13.4	1.47	2015 Lower Harbor Debris Removal only. Location #59 Popes was collected but the media was found lying on the ground so it was not analyzed. Strong winds were experienced during most of the evening.						
11/18/15	14.6	NS		NS	12.6	4.13	NS	3.11	6.27	14.0	NS	NS	13.7	NS	NS	35.4/38.4 d	2.30			NS	NS	NS				2.13	NS	NS	NS	2015 Hydraulic Dredging in Upper Harbor Area T.								
11/02/15	NS	NS		NS	NS	NS	NS	13.2	NS	NS	NS	NS	34.9	NS	NS	NS	NS				5.68	9.72	25.4				12.8	NS	10.9	23.5	2015 Lower Harbor Pre-debris removal.							
10/14/15	22.6	16.4		17.4	4.48	13.0	42.8	19.5	7.32	23.6	NS	NS	17.4	NS	NS	186	0.352									11.4				2015 Hydraulic Dredging in Upper Harbor - Area S; Samples 25, 27, 30, 42, 55 and one blank analyzed on 10 day TAT for submarine power cable removal activities. The pump for the duplicate sample at Station #50 - Area D failed to run the equivalent time of the primary sample and was voided.								
09/23/15	150	180		3.9	57/50d	8.1	19	16	50	63	NS	NS	42	NS	NS	300	7.4									7.5				2015 Hydraulic Dredging in Upper Harbor Area H.								
8/26/2015	62	46/35d		22	19	34	84	13	21	35	NS	NS	32	NS	NS	1900	1.2									15				2015 Hydraulic Dredging in Upper Harbor - Area S.								
7/21/2015	44	48		10	44	20	37	19	27	16	NS	NS	11/15d	NS	NS	NS	7.2									11				2015 Pre-Dredge Samples for the Upper Harbor. Location #56 - Acushnet Park can no longer be used as a sampling station due to frequent vandalism of pump and/or media.								
6/3/2015	45	38		0.97	17	4.2	8.6	1.2	5.6	13/14d	NS	NS	16	NS	NS	NS	1.9	1.1								1.2	NS			2015 Off Season Data Collection.								
4/22/2015	52	26		NA	20	3.4	16	7.6	12	0.016	NS	NS	3.6	NS	NS	NS	4.9	NS								5.7	NS			2015 Off Season Data Collection and Pre-dredge sampling for the Upper Harbor. Pump at Station #27 failed to run long enough to collect a viable sample so it was not analyzed.								
4/6/20																																						

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1/13/2015	0.58	0.55		0.1600	0.11 / 0.15d	0.87	1.4	0.17	0.075	0.43	NS	NS	1.3	NS	NS	NS	0.05	0.12						0.230	2.48			Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging).
12/29/2014	NS	NS		NS	NS	NS	NS	0.98	NS	NS	NS	NS	0.5	NS	NS	NS	NS	NS						1.6/1.9d	3.5			Rapid TAT data. Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging).
12/18/2014	NS	NS		NS	NS	NS	NS	1.00	NS	NS	NS	NS	0.49	NS	NS	NS	NS	NS						2.3	3.5/4.6d			Rapid turn around time (TAT) data. Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging). Reissue of data due to error in laboratory calculations.
12/15/2014	6.7	7.2		0.73	5.6	2.3	3.6	1.6	2.7	4.4	NS	NS	3.7/4.3d	NS	NS	NS	1.6	0.51						1.1	4.7			Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging). Off-season data collection included on January 5, 2015 as received from laboratory.
11/4/2014	43	21.4		9.9	26.8	8.9	17.41	24.2	21	4.85	NS	NS	7.43	NS	NS	NS	4.38	7.05						15.72/ 5.19d	NS			2014 Post-Dredge Operation for Upper Harbor. Pre-Dredge sampling for the Lower Harbor CAD Cell Phase II (#44, 50 and 64).
10/6/2014	150	98/110d		5.2	180	3.6	17	21	70	21	NS	NS	21	NS	NS	90	NS	NA						12	NS			2014 Hydraulic Dredging in Areas L & S.
9/3/2014	91	44		9.1	39	36	53	12/10d	10	20	NS	NS	11	NS	NS	100	NS	3.8						11				2014 Hydraulic Dredging in Area R-east.
8/5/2014	75	72		8	61	17	37	17	42	55	NS	NS	23	NS	NS	260	NS	4.9						8.5				2014 Hydraulic Dredging in Area R-east.
7/8/2014	82	25		23	36	19	43	34	24	33/33d	NS	NS	22	NS	NS	110	NS	4.2						15				2014 Hydraulic Dredging in Area R-east.
6/16/2014	200	90		12/13d	100	25	35	27	50	25	NS	NS	20	NS	NS	320	NS	21						8.6				2014 Hydraulic Dredging in Area R.
5/7/2014	56.9	32.6		NS	33.8	10.86	29.7	24.3	38.28	13.38	NS	NS	10.96	NS	NS	194	NS	7.01						11.56				2014 Hydraulic Dredging in Area R.
3/18/2014	17	5.8		0.36/0.4 2d	4.5	2.2	1.7	0.41	ND	3.3	NS	NS	2.8	NS	NS	NS	0.14							0.22				2014 Pre-Dredge Samples for the Upper Harbor.
3/18/2014													0.41				2.8							0.22	NS			Post-Dredge Samples for the Lower Harbor.
12/19/2013													2.32				3.5/3.02 d							3.13	0.89			
12/4/2013													3.31/3.0d				0.643							2.16	3.57			Lower Harbor CAD Cell Construction Phase 1 (top of CAD Cell dredging).
11/20/2013													2.17				3.55							1.68/2.0d	6.21			
9/25/2013	25.6	26.5		2.65	14.7	8.05	11.2	NS	4.1	NS	NS	NS	13.3/12.8d	NS	NS	NS	NS	NS						NS				2013 Post-Dredge Operation.
8/20/2013	230	130		15	160	18	61	NS	60/57d	29	NS	NS	29	NS	NS	240	NS	NS						NS				2013 Hydraulic Dredging in Area P.
7/16/2013	240	110		8.1	130	22	36	16	48	110	NS	NS	69	NS	NS	510	NS	NS						14.4				2013 Hydraulic Dredging in Area P.
3/26/2013	14	1.4		3.2	NS	6.6	8.3	1.1	0.65	NS	NS	NS	NS	NS	NS	NS	0.49	NS	NS					1.8/1.8d				2013 Pre-Dredge Samples for the Upper Harbor.
3/26/2013													1.1				0.49							1.8/1.8d	NS			2013 Pre-Dredge Samples for the Lower Harbor.
10/1/2012	98	18		17/18d	25	17	87		18	NS	NS	14	0.56	NS	NS	NS	15	NS						NA				2012 Post Dredge Operation; Sample at Station 62 had insufficient air volume and was not analyzed. Due to several vandalized samples this station has been discontinued.
8/21/2012	67	28		23	17	19	67		14/16d	NS	NS	20	4	NS	NS	NA	0.00033	NS						18				2012 Hydraulic Dredging in Area P; Sample at Station 53 had insufficient air volume and was not analyzed.
7/16/2012	220	1.2		24/24d	110	36	140		26	NS	NS	57	10	NS	NS	280	10	NS						3.3				2012 Hydraulic Dredging in Area L.
7/2/2012	NA	NA		NA	NA	NA	NA		NA	NS	NS	NA	NA	NS	NS	NA	NA	NA						NA				All samples collected were voided due to out of temperature specification upon arrival at laboratory.
5/21/2012	51	NS	67/66d	0.81	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						0.0029				2012 Pre-Dredge Samples; Station 27 is a new location in 2012 season for eastern residential receptor.
10/11/2011	36	NS	NS		42	10	18		11	NS	NS	25	17	NS	NS	420	18						0.29				2011 Post-Dredge Operation.	
9/14/2011	480	NS	NS		120	29	61		93	NS	NS	220	0.62	NS	NS	460	28	57						NS				2011 Hydraulic Dredging in Area N. Sample at Station 62 was tampered and not analyzed.
8/23/2011	280	NS	NS		60	80	94		NS	NS	NS	220/200d	16	NS	NS	1800	48	13						52				2011 Hydraulic Dredging in Area K.
7/26/2011	NS	NS	NS		NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						NS	51			Excavation of Area Q.
7/13/2011	1100	NS	NS		130	40	43		43	NS	NS	78	110	NS	NS	1000/1100d	79	25						6.7	NS			2011 Hydraulic Dredging in Area K.
5/25/2011	56	NS	NS		NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	93/97d	NS						0.68	25			2011 Pre-Dredge Samples; Station 63 is a new location in 2011 season for Area Q.
10/13/2010	80	NS	NS		36	9	7.4		21	NS	NS	24	4.4	NS	NS	NS	19	5.9						1.1	NS			2010

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10/7/2008	NS	NS	NS		NS	NS	NS	5.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						
9/24/2008	NS	NS	NS		NS	NS	18		NS	NS	NS	42	NS	NS	NS	1.5	NS	NS	15.0									
8/21/2008	NS	NS	NS		NS	NS	31.66		121.9	NS	NS	123.4/ 116.4d	NS	2.85	NS	178.0	NS	NS	37.46									
7/16/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NA	68.6	NS			286.5								
7/8/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NA	8.7	NS			26.1								
6/25/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NA	5.52	NS			NS								
6/19/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NA	8.9	NS			NS								
6/12/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NA	7.3	NS			43.1								
6/8/2008	NS	NS	NA		NS	NS			NS	NS	NS	NS	NS	NS	NA	25.9	NS			34.4								
11/9/2007	19.7	NS	20.2		NS	15.7			1.86	9.29	NS	NS	4.39	NS	NA	NS	NS										2007 Post-Dredge Operation.	
9/18/2007	176	NS	120		NS	16.3			21.4	57.1	NS	NS	48.7	NS	NS	130	NS	NS									2007 Hydraulic Dredging	
8/21/2007	282	NS	147		NS	19.2			36.1	46.9	NS	NS	36.7	NS	NS	138	NS	NS									2006 Post-Dredge Operation.	
11/19/2006	41.1	NS	0.14		NS	NS			4.05	NS	NS	81.4	2.6	NS	NS	NA	NS	NS									2006 Hydraulic Dredging.	
10/6/2006	2,357	NS	451		NS	NS			108	NS	NS	157	NS	NS	197	13430	NS	NS									2005 Post-Dredge Operation.	
8/31/2006	1,629	NS	176		NS	NS			70.4	39.2	NS	NS	67.3	NS	2336	NS	NS										2005 Hydraulic Dredging.	
12/29/2005	83.2	NS	10.9		NS	21.4			65.1	7.4	NS	NS	2.2	NS	NA	10.8	13.5										2005 Pre-Dredge Samples.	
11/18/2005	15.9	NS	0.1		NS	63.6			0.1	NS	0.1	3.7	NS	NS	913.0	0.1	3.8										2004 Post-Dredge Operation.	
10/28/2005	15.4	NS	NS		NS	32.3			2.1	NS	4.6	12.3	0.0	NS	NS	505.0	4.0	2.7									2004 Hydraulic Dredging.	
10/6/2005	1822.0	NS	251.0		NS	119.0			130.0	NS	60.1	114.0	81.7	NS	NS	6315.0	222.0	180.0									Initial MU-2 Dredging During Startup.	
9/29/2005	383.0	NS	104.0		NS	5.3			124.0	NS	17.3	44.2	24.2	NS	NS	391.0	87.0	77.9									No Dredging Activities.	
9/23/2005	178.0	NS	35.2		NS	83.3			115.0	NS	19.1	97.0	0.3	NS	NS	780.0	2.6	23.9									No Dredging Activities. Data from Foster-Wheeler. (no activity).	
9/15/2005	1490.0	NS	58.2		NS	22.5			99.8	NS	14.9	83.6	0.5	NS	NS	1280.0	37.6	102.0										
8/11/2005	216.0	NS	103.0		NS	25.9			37.2	NS	NS	29.3	NS	NS	21.3	NA	42.1	49.9										
12/3/2004	30	NS	27		NS	40			15	22	NS	26	22	NS	31	NA	9.33	1.52										
11/5/2004	578	NS	61		NS	73			80	NS	NS	28	NS	NS	351	28.42	39.08											
10/19/2004	559	NS	259		NS	NS			36	47	48	66	17	74	100	704	NS	NS										
9/28/2004	9557	NS	423		NS	NS			342	35	165	207	80	75	115	2734	NS	NS										
9/23/2004	588	NS	97		NS	NS			5	7	10	17	6	5	19	1212	NS	NS										
9/14/2004	1449	NS	229		NS	NS			48	64	64	86	38	39	61	98	NS	NS										
9/9/2004	1024	NS	167		NS	NS			145	28	37	56	20	16	47	723	NS	NS										
6/29/2004	2286	NS	NS		NS	NS			NS	NS	NS	NS	56	NS	NS	NS	NS	NS										
March-May 2000	76	NS	35		NS	29			35	61	61	61	6.8	6.8	6.8	NS	NS											
Dec 1999- Feb 2000	32	NS	3.2		NS	9.9			3.2	89	89	89	3.4	3.4	3.4	NS	NS											
Sept-Nov 1999	67	NS	22		NS	24			22	43	43	43	5.9	5.9	5.9	5.2	5.2											
June-August 1999	130	NS	46		NS	31			46	33	33	33	12	12	12	NS	NS											

Notes:

d = field duplicate result

P = Pending results

NA = sample collected but not analyzed

ng/m³ = nanograms per cubic meter of air

NS = not sampled

PCBs = polychlorinated biphenyl

ND = no detections (non-detect)

Sample station with gray blocking is a newer station added to the air sampling program or discontinued station (no activity).

