Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 07/21/2021

Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)[1]																																						
	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	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Wash-burn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Huttle-ston	67 Revere	68 Marsh Island	69 North Street	74 Beach St	75 Lecuyer	76 Lecuyer North	77 Lecuyer South	78 Howard	79 Ball Plant	80 Sycamore	
										47	48	49	50	51	52																								
07/13/21	NS	34.7		<1.39	43.9	NS	NS		11.8	12.4/14.6 d	NS	NS					NS																					NS	2021 West Zones 4 and 5 remedial results
06/03/21	NS	14.9		<1.39	13.4	NS	NS		10.9	8.86/4.35 d	NS	NS					NS																					NS	2021 West Zones 4 and 5 remedial results
05/17/21	NS	NS		27.2	NS	NS	23.1		12.1	15.0/16.5 d	NS	NS					NS	NS						NS									NS	NS	NS	NS	NS	2.11	2021 East Zones 3, 4, and 5 remedial results
04/14/21	NS	NS		1.53	NS	NS	<1.39		6.79	5.99/5.29 d	NS	NS					NS	NS						NS									NS	NS	NS	NS	NS	<1.39	2021 East Zones 3, 4, and 5 remedial results
03/16/21	NS	NS		<1.39	NS	NS	1.78		<1.39	<1.39/<1.39d	NS	NS					NS	NS						NS									NS	NS	NS	NS	NS	<1.39	2021 East Zones 3, 4, and 5 remedial results
11/19/20	25.6	NS		NS	NS	NS	NS	11.5	NS	<1.39/<1.39d	NS	NS	<1.39	NS	NS		NS	6.47						NS		6.07			<1.39				NS	NS	NS	<1.39	31.1		2020 West Zone 1 remedial results
10/19/20	28.2	NS		NS	NS	NS	NS	2.79	NS	21.8/22.4 d	NS	NS	12.7	NS	NS		NS	5.17						NS		1.88			13.9				16.3	27.8	NS	5.67	42.1		2020 West Zone 1 and East Zone 1 remedial results
10/08/20	6.43	NS		NS	NS	NS	NS	<1.39	NS	1.60/<1.39d	NS	NS	1.44	NS	NS		NS	1.82						NS		<1.39			<1.39				30.6	26.4	NS	<1.39	17.4		2020 West Zone 1 and East Zone 1 remedial results
09/24/20	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS							NS		NS			NS				110	319	106				2020 East Zone 1 follow-up to 2nd trigger exceedance at #75 Lecuyer on 09/03/2020
09/03/20	72.8	NS		NS	NS	30.7	25.6	10.1	20.4	18.2/15.4 d	NS	NS	10.7	NS	NS		NS							35.8		9.58			7.08				456						2020 Upper Harbor Post-dredging and East Zone 1 remedial results.
08/06/20	92.6	67.1		NS	NS	122	30.0	13.8	34.2	22.6/7.26 d	NS	NS	11.1	NS	NS		NS							56.1		8.58			NA				44.0						2020 Upper Harbor Post-dredging and East Zone 1 remedial results. The duplicate at Station 47 (Area C) had lab QA issues and may be considered biased low. The sample from Station 67 (Revere) did not run for the minimum 12 hours to be submitted for analysis.
07/07/20	97.8	40.8		NS	NS	8.81	8.17	14.4	34.9	4.07/4.40 d	NS	NS	8.75	NS	NS		NS							20.7		11.9			20.6				12.6						2020 Upper Harbor Post-dredging and East Zone 1 remedial results.
06/02/20	60.6	29.9		NS	NS	13.7	16.8	18.3	NS	10.5/12.7 d	NS	NS	7.43	NS	NS		NS							61.1		14.3			7.85				14.0						2020 Upper Harbor Post-dredging and East Zone 1 remedial results
05/05/20	5.06	NS		NS	NS	21.7	NS	<1.39	NS	24.3/21.9 d	NS	NS	10.1	NS	NS		NS							8.04		<1.39			9.71				41.7						2020 East Zone 1 remedial results.
04/06/20	26.0	NS		NS	NS	8.88	NS	3.08	NS	11.5/15.6 d	NS	NS	1.82	NS	NS		NS							<1.39		3.08			<1.39				13.0						2020 East Zone 1 remedial results.
03/03/20	30.0	NS		NS	NS	NS	6.99	8.65	22.4	8.22/9.64 d	NS	NS	8.35	NS	NS	39.5	NS									8.39	31.6		4.86										2019 Dredge Areas U and V remedial results.
01/28/20	3.18	<1.39		<1.39	NS	NS	4.10	<1.39	<1.39	34.9/32.5	NS	NS	1.69	NS	NS	5.33	NS									1.89	13.7		<1.39										2019 Dredge Area S remedial results.
12/18/19	150	<1.39		<1.39	NS	NS	8.07	<1.39	<1.39	<1.39/<1.39d	NS	NS	3.94	NS	NS	<1.39	NS									2.72	15.8		<1.39										2019 Dredge Area R and Veranda Inlet remedial results.
11/19/19	244	5.47		<1.39	NS	NS	9.69	<1.39	<1.39	10.8/12.7 d	NS	NS	2.68	NS	NS	13.2	NS									<1.39	23.7		<1.39										2019 Dredge Area S and Pierce Mill Cove remedial results.
10/28/19	139	20.7		<1.39	NS	NS	1.71	<1.39	4.08	8.53/6.11 d	NS	NS	7.99	NS	NS	6.39	NS									<1.39	6.32		6.39										2019 Dredge Area R and Pierce Mill Cove remedial results.
10/01/19	79.3	36.0		2.89	16.9	18.1	27.5	16.3	9.31	2.36/9.26 d	NS	NS	11.1	NS	NS	14.9	NS							NS		19.3			<1.39										2019 Dredge Area L, P, and Pierce Mill Cove remedial results. First air monitoring event for mechanical dredging operation.
08/19/19	19.3	58.2		24.3	NS	NS	20.7		37.2	18.9/48.1 d	NS	NS	30.3	NS	NS	130	NS							NS															2019 Dredge Area S remedial results. The pump for the duplicate on Station 47 only ran for 19 hours. Because the elapsed time was more than 50 percent of the total time, the sample was retained for analysis.
07/25/19	51.5	54.7		17.2	NS	NS	18.2		29.9	47.1/47.5 d	NS	NS	20.1	NS	NS	230	NS							NS															2019 Dredge Area R remedial results.
06/26/19	28.9	49.7		NS	30.0	18.9	9.18		NS	27.4/21.3 d	NS	NS	16.8	NS	NS	112	NS							NS															2019 Dredge Area L remedial event results.
06/05/19	153	46.8		NS	49.7	29.6	35.8		NS	26.9/32.4 d	NS	NS	27.6	NS	NS	123	NS							NS															2019 Dredge Area L remedial event results.
04/23/19	17.5	25.0		NS	18.5	7.17	4.44		NS	11.4/10.0 d	NS	NS	13.0	NS	NS	137	NS							NS															2019 Dredge Area H remedial event and Area L background event results.
03/26/19	NS	26.7		NS	26.4	20.7	12.4		NS	9.61/2.50 d	NS	NS	6.13	NS	NS	59.0	NS							NS															2019 Dredge Area H remedial event results.
02/26/19	NS	<1.39		NS	<1.39	40.4J	17.5		NS	<1.39/<1.39d	NS	NS	<1.39	NS	NS	NS	NS							NS															2019 Dredge Area H background monitoring event results.

SEMS Doc ID 100018347

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 07/21/2021

Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)[1]																																						
										Area C			Area D																										
	24 Aerovox	25 Manomet	25 Cliftex	27 Porter	30 Fibre Leather	42 NSTAR North	43 Veranda	44 Taber	46 Coffin	47	48	49	50	51	52	53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Wash-burn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Hutte-ston	67 Revere	68 Marsh Island	69 North Street	74 Beach St	75 Lecuyer	76 Lecuyer North	77 Lecuyer South	78 Howard	79 Ball Plant	80 Sycamore	
12/19/18	32.6	NS		NS	19.6	19.4	NS		NS	23.6/22.1 d	NS	NS	20.8	NS	NS	114	NS							15.0															2018 Drege Areas I, N, & O remedial event and Aerovox Capping remedial event results.
11/28/18	<1.39	NS		NS	<1.39	17.6	NS		NS	<1.39/<1.39d	NS	NS	1.60	NS	NS	15.1	NS							3.88															2018 Drege Areas I, N, & O remedial event and Aerovox Capping remedial event results.
10/24/18	3.3	NS		NS	<1.39	23.2	NS		NS	4.31/3.75 d	NS	NS	4.97	NS	NS	71.5	<1.39							<1.39															2018 Drege Areas I, N, & O remedial event and Aerovox Capping remedial event results.
10/10/18	63.3	NS		NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	11.3/10.3d							42.1															2018 Aerovox Capping remedial event results.
09/24/18	74.0	NS		NS	34.9	17.9	NS		NS	37.5/32.4 d	NS	NS	31.4	NS	NS	146	NS							1.43															2018 Drege Areas I, N, & O remedial event.
08/24/18	123	NS		NS	32.9	39.4	NS		NS	31.5/15.4 d	NS	NS	23.5	NS	NS	141	NS							5.79															2018 Drege Areas I, N, & O remedial event.
07/24/18	317	NS		NS	264	8.21	NS		NS	135/143d	NS	NS	38.5	NS	NS	371	NS							16.7								40.7							2018 Drege Areas I, N, & O remedial event and Between the Beidges remedial event.
05/30/18	72.9	NS		NS	67.9	5.47	NS		NS	42.6/37.8 d	NS	NS	22.2	NS	NS	NS	NS							24.4															2018 Dredge Areas I,N,&O background event.
05/17/18	NS	NS		NS	NS	NS	NS	14.0/18.3d	NS	NS	NS	NS	NS	NS	NS	NS	NS									7.71	NS	NS	22.2		7.93								2018 North Street Salt Marsh remedial event.
04/23/18	NS	31.3		7.4	46.8	16.3	NS	NS	NS	38.5/42.4 d	NS	NS	16.4	NS	NS	82.3	NS									NS	NS	NS	NS		NS								2018 Cable Crossing remedial event.
03/27/18	NS	41.5		6.79	22.9	12.2	11.1	11.7	NS	19.0	NS	NS	21.5/24.3d	NS	NS	611	NS			NS	NS	19.1				NS	NS	NS	NS		NS								2018 Cable Crossing and Between the Bridges remedial events. The pump on Station 65--Lower Harbor Dredge, stopped prematurely and did not run long enough to collect a valid sample.
02/21/18	NS	NS		NS	NS	NS	5.21	4.03	NS	17.2	NS	NS	17.8	NS	NS	NS	NS			3.56	4.53	12.3				5.18	12.7	3.53	1.89		NS								2018 Lower Harbor Best Value remedial event. The pump for the duplicate sample at Station #47 did not run for the prescribed period and the sample was not submitted for analysis.
01/25/18	NS	NS		NS	NS	NS	<1.39	<1.39	NS	<1.39/<1.39d	NS	NS	<1.39	NS	NS	NS	NS			<1.39	<1.39	<1.39				<1.39	<4.50	<1.39	<1.39		<1.39								2018 Lower Harbor Best Value remedial event. This event also included a background sample for Station 69-North Street to support remediation of the North Street Salt Marsh.
12/19/17	NS	NS		NS	NS	NS	27.8	9.64	NS	9.39/12.6 d	NS	NS	11.2	NS	NS	NS	NS			<1.39	2.82	<1.39				14.2	4.87	12.6	<1.39										2017 Lower Harbor Best Value remedial event.
12/13/17	NS	<1.39		8.1	2.0	13	NS	NS	NS	1.4/<1.39 d	NS	NS	9.6	NS	NS	191	NS			NS	NS	NS				NS	NS	NS	NS										2017 Cable Crossing remedial event.
11/28/17	NS	NS		NS	NS	NS	11	22	NS	48/29d	NS	NS	6.8	NS	NS	NS	NS			18	5.2	13				1.7	6.5	2.5	9.3										2017 Lower Harbor Best Value remedial event.
11/15/17	NS	29		1.5	43	4.8	NS	NS	NS	31/34d	NS	NS	25	NS	NS	825	NS			NS	NS	NS				NS	NS	NS	NS										2017 Cable Crossing remedial event.
10/23/17	NS	NS		NS	NS	NS	5	24	NS	75/120d	NS	NS	32	NS	NS	NS	NS			5	22	97				16	45	2	35										2017 Lower Harbor Best Value remedial event.
10/19/17	NS	34		23	22	28	NS	NS	NS	29	NS	NS	15	NS	NS	171	NS			NS	NS	NS				NS	NS	NS	NS										2017 Cable Crossing remedial event. The duplicate sample for Station 47--Area C did not run longer than 12 hours and was not sent to the laboratory for analysis.
09/26/17	NS	NS		NS	NS	NS	34	6	NS	42.9/25d	NS	NS	46	NS	NS	NS	NS			6	13	48				15	33	ND	26										2017 Lower Harbor Best Value remedial event.
09/13/17	NS	82		35	41	30	NS	NS	NS	8/15d	NS	NS	16	NS	NS	NS	NS			NS	NS	NS				NS	NS	NS	NS										2017 Cable Crossing background event.
08/24/17	NS	NS		NS	NS	NS	NS	7.57/24.4d	NS	NS	NS	NS	NS	NS	NS	NS	NS			NS	NS	3.82				NS	NS	NS	16.9	38.6									2017 Marsh Island Excavation results.
07/19/17	NS	NS		NS	NS	NS	70.8	21.1	NS	34.2/18.8 d	NS	NS	9.38	NS	NS	NS	NS			14.0	13.0	44.7				42.4	NS	26.8	17.6	49.4									2017 Lower Harbor Best Value/Marsh Island background event. Station 50 Area D ran for 878 minutes, but was retained because it ran for more than 12 hours.
04/03/17	NS	4.79		ND_R	NS	NS	3.60	ND_R	2.54	2.88	NS	NS	ND_R	NS	NS	ND_R	NS			ND_R	3.01	ND_R				ND_R	NS	ND_R	ND_R										2017 Upper Harbor Dredging-Lower Harbor CAD Cell filling. The pump at Area D failed by mid-afternoon. The pump used on the dredge was removed after 8 hours and placed at Area D. Both Area D and the dredge were monitored for their full time intervals. The pump for the duplicate at Area C shut down sometime after inspection. Because it didn't run for at least 12 hours, the sample was discarded. Due to a laboratory error, all ND results (less than 1.39 ng/m^3) were rejected as a result of data validation. These are indicated by ND_R.
03/29/17	NS	NS		NS	NS	NS	5.94	NS	ND	7.15/7.67 d	NS	NS	NS	NS	NS	NS	NS		ND	NS	NS	NS				NS	NS	NS	NS										2017 Upper Harbor Excavation PMC results.
03/08/17	NS	6.92		11.5	NS	NS	29.9	2.00	15.2	<1.37/<1.39d	NS	NS	<1.39	NS	NS	71.9	NS		NS	<1.39	<1.39	<1.38				12.8	NS	5.35	<1.39										2017 Upper harbor dredging lower harbor CAD cell placements. Note Pearl (#58) pump had stopped in mid-collection. The dredge pump (#53) had only run for 40 minutes prior to shutdown. The dredge pump (#53) was placed at #58 Pearl for remainder of day to collect a 6.5 m^3 sample. The dredge pump (#53) was placed onboard the dredge the following day (3/9/17) to collect a total sample of 2.15 m^3. This was also the first round that was analyzed entirely by the low resolution mass spec method.

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 07/21/2021

Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)[1]																																						
	24 Aerovox	25 Manomet	25 Cliftex	27 Porter	30 Fibre Leather	42 NSTAR North	43 Veranda	44 Taber	46 Coffin	Area C 47	Area C 48	Area C 49	Area D 50	Area D 51	Area D 52	53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Wash-burn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Huttle-ston	67 Revere	68 Marsh Island	69 North Street	74 Beach St	75 Lecuyer	76 Lecuyer North	77 Lecuyer South	78 Howard	79 Ball Plant	80 Sycamore	
02/23/17	NS	NS		NS	NS	NS	4.01	NS	22.7	2.38	NS	NS	NS	NS	NS	NS	NS		1.68	NS	NS	NS				NS	NS	NS	NS										2017 Upper Harbor Excavation PMC results. The duplicate pump for Station #47 Area C failed and no duplicate sample was submitted for analysis.
01/25/17	NS	4.53		2.57	NS	NS	11.4	2.67	9.41	2.43 / 2.65d	NS	NS	2.66	NS	NS	6.35	NS		NS	0.803	NS	6.58				2.91	NS	3.84	3.07										2017 Upper harbor dredging lower harbor CAD cell placements.
01/12/17	NS	NS		NS	NS	NS	18.2	NS	15.9	1.90/1.90 d	NS	NS	NS	NS	NS	NS	NS		<0.061	NS	NS	NS				NS	NS	NS	NS										2017 Upper Harbor Excavation PMC results.
12/06/16	NS	NS		NS	NS	NS	3.56	0.679	NS	5.32/5.10 d	NS	NS	5.41	NS	NS	NS	NS		NS	NS	1.57	6.08				1.14	11.7	0.48	4.86										2016 Lower Harbor Dredging in Moby Dick Marina Area A36.
12/01/16	NS	NS		NS	NS	NS	19.7	NS	1.04	1.10 / 1.21d	NS	NS	NS	NS	NS	NS	NS		0.0007	NS	NS	NS				NS	NS	NS	NS										2016 Upper Harbor Excavation PMC results.
11/10/16	NS	NS		NS	NS	NS	13.7	NS	4.72	1.64/1.63 d	NS	NS	NS	NS	NS	NS	NS		0.658	NS	NS	NS				NS	NS	NS	NS										2016 Upper Harbor Pre- excavation PMC results.
11/07/16	NS	NS		NS	NS	NS	6.26	4.07	NS	3.38	NS	NS	5.82/3.75d	NS	NS	NS	NS			0.416	3.55	7.29				2.10	3.19	NS	5.57										2016 Lower Harbor Dredging in Area A34. Dredge was sampled.
10/19/16	NS	NS		NS	NS	NS	85.2	18.2	NS	26.2	NS	NS	21.1/24.4d	NS	NS	NS	NS			3.89	13.0	30.2				10.6	17.1	NS	22.9										2016 Lower Harbor Dredging in Area A34. Dredge was sampled.
09/20/16	NS	NS		NS	NS	NS	35.3	18.9	NS	21.4	NS	NS	20.6/22.0d	NS	NS	NS	NS			2.50	NS	59.5				15.7	37.4	NS	25.9										2016 Lower Harbor Dredging in Area A34. Dredge was sampled.
08/18/16	NS	NS		NS	NS	NS	97.6	19.1	NS	17.1/17.1 d	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.
08/11/16	NS	61.1		32.2	35.2/39.2 d	35.6	NS	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.
07/27/16	NS	NS		NS	NS	NS	42.9	23.7	NS	18.1/16.5 d	NS	NS	12.3	NS	NS	NS	NS			0.416	7.36	32.4				11.1	83.1	6.42	13.4										2016 Lower Harbor Drediging. Dredge was sampled.
07/20/16	NS	95.1		22.8	56.9/52.0 d	33.2	NS	NS	25.3	NS	NS	NS	NS	NS	NS	513	NS			NS	NS	NS				NS	NS	NS	NS										2016 Upper Harbor Debris Removal. Debris Barge was sampled.
06/27/16	NS	NS		NS	NS	NS	21.8	32.8	NS	14.4/13.4 d	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	36.5	NS	0.630	6.37/5.45 d	NS	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	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	41.7	NS	3.96	3.86/2.40 d	NS	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	10.9	6.02	NS	14.7	NS	NS	6.55/6.46d	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	12.6	7.48	NS	2.38/2.16 d	NS	NS	0.578	NS	NS	NS	NS			0.0804	2.53	0.553				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	4.88	1.34	0.114	2.69	NS	NS	0.979/1.13 d	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	14.1	4.39	NS	4.82	NS	NS	0.867/1.08 d	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	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	0.102/0.117d	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	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	35.4/38.4d	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 vandalization 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.
4/6/2015	NS	NS		NS	NS	NS	NS	5.1	NS	NS	NS	NS	8.5	NS	NS	NS	NS	NS								2.2	NS												Lower Harbor CAD Cell Construction Phase II (Post Top of CAD Cell dredging); Pump at Station #50 failed to run the same duration as the duplicate so only the duplicate sample was analyzed. This sample is considered the primary sample so there is no duplicate for this post-dredge sampling event.
3/11/2015	NS	0.55/0.39d		NS	0.19	NS	NS	0.53	0.15	1.00	NS	NS	0.56	NS	NS	NS	0.12	NS								0.53	2.4												Lower Harbor CAD Cell Construction Phase II (Top of CAD Cell dredging); Stations 24, 27, 42, and 43 were inaccessible for sampling due to obstructions from snow/ice piles.
2/6/2015	NS	NS		NS	NS	NS	NS	0.14/0.17	NS	NS	NS	NS	0.099	NS	NS	NS	NS	NS								0.15	NS												Lower Harbor CAD Cell Construction Phase II (Top of CAD Cell dredging); The dredge sample media was found broken at the dredge and therefore was not analyzed.
1/13/2015	0.58	0.55		0.16	0.11/0.15 d	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	1.0	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	17.4	24.2	21	4.85	NS	NS	7.43	NS	NS	NS	4.38	7.05								15.7/5.19d	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	52.8	12/10d	10.1	20.4	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	42.2	55.1	NS	NS	23.4	NS	NS	260	NS	4.9								8.45													2014 Hydraulic Dredging in Area R-east.
7/8/2014	82	25		22.7	35.7	19	43.1	34	24	33/33d	NS	NS	22	NS	NS	110	NS	4.2								14.7													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	10.9	29.7	24.3	38.3	13.4	NS	NS	11.0	NS	NS	194	NS	7.01								11.6													2014 Hydraulic Dredging in Area R.
3/18/2014	17	5.8		0.36/0.42d	4.5	2.2	1.7	0.41	ND	3.3	NS	NS	2.8	NS	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					3.5/3.02d													3.13	0.89												

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 07/21/2021

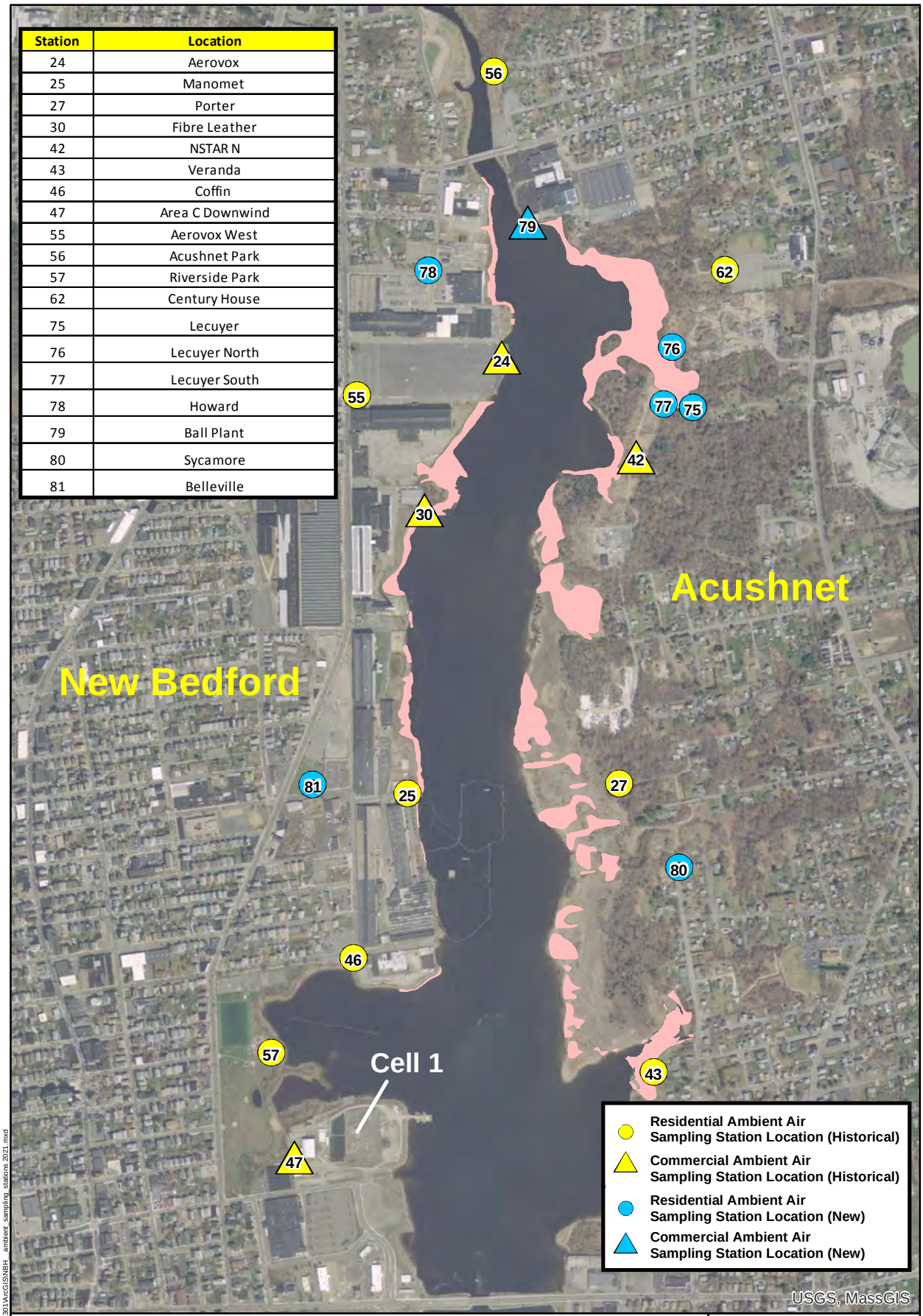
Sampling Date	PCB Concentration by Location (ng/m^3 in 24-hour time-weighted average)[1]																																						
	24 Aerovox	25 Manomet	25 Cliftex	27 Porter	30 Fibre Leather	42 NSTAR North	43 Veranda	44 Taber	46 Coffin	Area C 47	Area C 48	Area C 49	Area D 50	Area D 51	Area D 52	53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Wash-burn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Hutte-ston	67 Revere	68 Marsh Island	69 North Street	74 Beach St	75 Lecuyer	76 Lecuyer North	77 Lecuyer South	78 Howard	79 Ball Plant	80 Sycamore	
12/4/2013								3.31/3.0 d					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	0.5	NS	NS	NS								1.8/1.8d												2013 Pre-Dredge Samples for the Upper Harbor.
3/26/2013								1.1							0.5											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	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	1000/1100 d	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 Post-Dredge Operation.
8/18/2010	1800	NS	NS		300	25	36		31	NS	NS	130	37	NS	NS	560/580d	200	11						13														2010 Hydraulic Dredging.
7/20/2010	270	NS	NS		29	NS	26		47	NS	NS	79/73d	37	NS	NS	450	93	26						2.7														
6/30/2010	120	NS	NS		7.3	0.0013	82		13	NS	NS	32	3.3	NS	NS	230	3.2	12						44/41d														
5/21/2010	86	NS	NS		NS	0.042	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						ND/NDd														2010 Pre-Dredge Samples.
5/13/2010	void	NS	NA		NS	void	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						void														2010 pre-dredge samples. Sample location at Century House Resturant (#62) in Acushnet added at the direction of the EPA. Samples taken on 5/13/10 were damaged during shipment.
12/16/2009	3.3	NS	NS		0.134	23.8	9.12		0.171	NS	NS	1.78	NS	0.18	NS	NS	0.372/0.353 d	0.63																				2009 Post-Dredge Operation.
11/9/2009	45.2	NS	NS		20.4/31d	25.3	55.2		32.8	NS	NS	51.8	NS	2.92	NS	205	8.31	17.2																				2009 Hydraulic Dredging.
10/14/2009	48.8	NS	NS		11.8	17.9	10.0		8.8/6.07 d	NS	NS	13.3	NS	3.75	NS	0.13	10	2.62																				
9/17/2009	160	NS	NS		24	2.2	51		13	NS	NS	35	NS	42	NS	180	14	10/9.8d																				
8/13/2009	130	NS	NS		21	14	49		14	NS	NS	32	NS	31	NS	130	28/30d	20																				
7/13/2009	130	NS	NS		18	39	110		36	NS	NS	77/76d	NS	5.3	NS	290	7.4	6																				
6/16/2009	150	NS	NS		77	10	33		35	43	NS	NS	NS	32	NS	120	33	8.2																				
11/10/2008	NS	NS	NS		NS	NS	15		1.3	NS	NS	6.2	NS	ND	NS	NS	NS	NS	0.11																			2008 Post-Dredge Operation.
10/7/2008	NS	NS	NS		NS	NS	NS		5.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS																			2008 Hydraulic Dredging.
9/24/2008	NS	NS	NS		NS	NS	18		NS	NS	NS	42	NS	NS	NS	1.5	NS	NS	15																			
8/21/2008	NS	NS	NS		NS	NS	31.7		122	NS	NS	123/116d	NS	2.85	NS	178	NS	NS	37.5																			
7/16/2008	NS	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NS	NA	68.6	NS					287															2008 Land-Based Excavation of Shoreline at Aerovox. Sample Station 61 - South Fence was used only during the excavation timeframe.
7/8/2008	NS	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	NS	NA	5.52	NS					NS															
6/19/2008	NS	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	NS	NA	7.3	NS					43.1															
6/8/2008	NS	NS	NA		NS	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	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																				
11/19/2006	41.1	NS	0.14		NS	NS			4.05	NS	NS	81.4	2.6	NS	NS	NA	NS	NS																				2006 Post-Dredge Operation.
10/6/2006	2,360	NS	451		NS	NS			108	NS	NS	157	NS	NS	197	13,400	NS	NS																				2006 Hydraulic Dredging.
8/31/2006	1,630	NS	176		NS	NS			70.4	39.2	NS	NS	NS	67.3	NS	2,340	NS	NS																				
12/29/2005	83.2	NS	10.9		NS	21.4			65.1	7.42	NS	NS	NS	2.18	NS	NA	10.8	13.5																				2005 Post-Dredge Operation.
11/18/2005	15.9	NS	0.12		NS	63.6			0.14	NS	0.139	3.71	NS	NS	NS	913	0.12	3.76																				2005 Hydraulic Dredging.
10/28/2005	15.4	NS	NS		NS	32.3			2.06	NS	4.61	12.3	0.01	NS	NS	505	3.97	2.73																				
10/6/2005	1,820	NS	251		NS	119			130	NS	60.1	114	81.7	NS	NS	6,320	222	180																				
9/29/2005	383	NS	104		NS	5.28			124	NS	17.3	44.2	24.2	NS	NS	391	87	77.9																				
9/23/2005	178	NS	35.2		NS	83.3			115	NS	19.1	97	0.26	NS	NS	780	2.64	23.9																				
9/15/2005	1490	NS	58.2		NS	22.5			99.8	NS	14.9	83.6	0.52	NS	NS	1280	37.6	102																				
8/11/2005	216	NS	103		NS	25.9			37.2	NS	NS	29.3	NS	NS	21.3	NA	42.1	49.9																				2005 Pre-Dredge Samples.
12/3/2004	30	NS	27		NS	40			15	22	NS	26	22	NS	31	NA	9.33	1.52																				2004 Post-Dredge Operation.
11/5/2004	578	NS	61		NS	73			80	NS	NS	28	NS	NS	NS	351	28.4	39.1																				2004 Hydraulic Dredging.
10/19/2004	559	NS	259		NS	NS			36	47	48	66	17	74	100	704	NS	NS																				
9/28/2004	9,560	NS	423		NS	NS			342	35	165	207	80	75	115	2,730	NS	NS																				
9/23/2004	588	NS	97		NS	NS			5	7	10	17	6	5	19	1,210	NS	NS																				
9/14/2004	1,450	NS	229		NS	NS			48	64	64	86	38	39	61	98	NS	NS																				Initial MU-2 Dredging During Startup.
9/9/2004	1,020	NS	167		NS	NS			145	28	37	56	20	16	47	723	NS	NS																				
6/29/2004	2,290	NS	NS		NS	NS			NS	NS	NS	NS	NS	56	NS		NS	NS																				No Dredging Activities.
March-May 2000	76	NS	35		NS	29			35	61	61	61	6.8	6.8	6.8		NS	NS																				No Dredging Activities. Data from Foster-Wheeler.
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
NA = sample collected but not analyzed
ng/m^3 = nanograms per cubic meter of air
NS = not sampled
PCB = polychlorinated biphenyl
ND = no detections (non-detect)

P = Pending results
[1]24-hour time-weighted average does not apply to Stations #53 and #65 (dredge/barge) which are on a 8-hr collection period

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

Station	Location
24	Aerovox
25	Manomet
27	Porter
30	Fibre Leather
42	NSTAR N
43	Veranda
46	Coffin
47	Area C Downwind
55	Aerovox West
56	Acushnet Park
57	Riverside Park
62	Century House
75	Lecuyer
76	Lecuyer North
77	Lecuyer South
78	Howard
79	Ball Plant
80	Sycamore
81	Belleville



Legend

INTERTIDAL REMEDIATION AREA

Aerial Photography MASSGIS 2014

N

0 500 1,000 Feet

1:12,000

JACOBS

Available Ambient Air Sampling Station Locations

New Bedford Harbor Superfund Site

NAME: jpiccuito Date: 3/10/2021

Figure 2-1

Path: Y:\NBH\Projects\35BG1001\20210301\ArcGIS\NBH_ambient_sampling_stations_2021.mxd